SCHOOL OF DESIGN AND CREATIVE ARTS

Design



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Visionary Thinkers Visionary Creators Visionar Makers

WELCOME FROM THE DEAN

A celebration of students' achievements, The Loughborough University School of Design and Creative Arts Degree Show is one of the highlights on the academic calendar. This year we are proud to host both a physical exhibition and digital showcase that engages our industry partners, potential employers, and members of the public.

This diverse and rich display of work is the culmination of students' capabilities and skills which have developed in an open and supportive studio- and practice-based environment, underpinned by rigorous theoretical and critical debate.

Here you will find innovative, bold, imaginative, playful and thoughtprovoking work from across our Creative Arts and Design courses in a show that unites the individual projects and unique talents of our students.

Art and Design is considered as one of the jewels in Loughborough University's crown. Our teaching, enterprise and research activities have real global impact, and we pride ourselves on providing students with a first-class learning experience. Our graduates have a strong tradition of building careers across a range of occupations around their creative practice.

We rank 1st in the UK for Design and Crafts (The Guardian University Guide 2022) and 2nd in the UK for Art and Design (The Times and Sunday Times Good University Guide 2022).

The work being exhibited at the Degree Show evidences the excellence on which these rankings are based.

I am sure you will join me in congratulating them and wishing our talented finalists every success in the future.

Professor Cees De Bont Dean of the School of Design and Creative Arts



AYO-OLUWA ADEKOYA BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY









ESSENCE (left) tackles social isolation and the limits of connectivity in the independently living elderly (65+ Years). The wearable revolutionises connectivity by recreating the sensation of a loved one's touch across distance through the use of sensors and haptic motors to achieve varying degrees of sensitivity and pressure. The hub companion sends personalised prompts to provide frequent conversation with the user. It allows loved

ones to set smart reminders for the elderly user and searches for other users in the area that the elderly user can connect with.Other projects include: LOTUS (Top/Bottom Left) is a smart hormone monitoring and topical drug delivery device for endometriosis patients. CHERUB (Top Right) is an app for the overwhelmed single parent of newborns. AL CAPPUCCINO (bottom left) is an electromechanical coffee machine project.



ayo adekoya@outlook.com

https://www.linkedin.com/in/ayo-oluwa-adekoya-aa34781a1/



LAURA ANDERSON BSC (HONS) USER CENTRED DESIGN











WATERFULL Incomposition Incomposit

Just 2.5% of water on the Earth's surface is considered freshwater. Our growing population is only increasing demand for this resource.

The average person in the U.K uses between 129-159 litres of water a day. With no way to quantify the volume of water you use, users have developed wasteful habits. Reducing household water waste by making users aware of their behaviour is crucial to conservation. Waterfull is a smart home monitoring system. Comprising of a LED dynamic device, mounted on your walls next to water sources. Communicating the user's consumption volume during a task using light. A paddlewheel flowmeter, measuring volume used. And a mobile application, to organise and present users with their consumption habits and suggest methods of improvement.





CHE ANTOINE BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY



+44(0) 7584 165 790 Instagram: @designbyche Behance and LinkedIn: Che Antoine chemarcantoine@gmail.com





1-3. FloraScope is an offline plant identifiier aimed at beginner botanists and conservationists.It improves the experience of learning and doing plant identification with a two step process blending the accuracy of manual identification keys with the efficiency of image recognition. This is with the goal of keeping traditional skills alive while bringing the craft into the future. The design is sleek but robust enough to withstand rugged

terrain, with swappable backup batteries for those extra long days in the field. The rubberised grip and smooth form make it comfortable to hold while the tactility of the analog physical buttons make it a joy to use. 4. Clever design features include the loop, a fastening point for carabiners and a pull tab for the battery when the battery door is unlocked. This tab also provides a visual indicator for whether the battery has been re-inserted.

5,6. Path is a travel aid for visually impaired bus travellers. (Group project, RSA shortlisted). A haptic pad advises users of approaching buses. Path then uses its thermal camera attachment to detect vacant seats and directional haptic feedback to guide them to these seats. Haptics also advise them of their stop. Its low profile ensures that users are not singled out for their disability. 7. Storyboard for Armand de Brignac packaging concept.





NEREA ASUA LOWE BSC (HONS) USER CENTRED DESIGN

+44(0) 7881 948 203 behance.net/nereaasualowe https://www.linkedin.com/nerea-asua-lowe/ n.asua-lowe@outlook.com







My work focuses on designing for marginalized and vulnerable groups, and gaining a deep understanding of their needs, wants and desires. I try to produce solutions that are beautiful and intuitive, but above all helpful to the users that deliver meaningful benefits to their lives, or as I would put it, creating 'impact through empathy'.

This is nowhere more evident than in my final

project where, in an attempt to tackle well known health inequalities, I created an 'at-home' diagnostic product for the early detection of cardiovascular disease to humanize a clinical process. Smart Heart aims to change user behaviour and take a proactive approach to understanding heart health, to break the optimism bias frequently at the centre of unhealthy lifestyle choices and activities that negatively impact heart function.





+44(0) 7840 793 532 https://uk.linkedin.com/in/charlotte-aukland-645720204 charlotteaukland@hotmail.co.uk





VENI is a training tool for student nurses to practice venepuctures (taking blood) in a home environment. In the aftermath of COVID and the introduction of hybrid working, using simulations instead of in-person experience is becoming a lot more common. Although the reaction to this in the nursing community is mixed, many see this as an opportunity to gain confidence and be able to practice without causing any real damage.

With my final year project, I have tried to make a more representative training tool that captures the intensity and realism of working in a hospital.

Nursing students need to be ready to transition from their studies to a real hospital environment. My product aims to help nursing students practice their key skills under high stress to build their confidence and prepare them for the challanges ahead.



SEAN BAERFUSS BSC (HONS) PRODUCT DESIGN & TECHNOLOGY

+44 7849 537472 www.seanbaerfuss.com sean.baerfuss@gmail.com







REMNANT

I am a young and ambitious designer who is passionate about innovating sustainable solutions and delightful experiences. Believing that design is the flawless fusion of beauty and innovation, I find that being part of such a multidisciplinary industry is inspiring and I am looking forward to joining the professional world and further developing my skills. Above are my top five latest design projects: 1. **Specto**, improving task efficiency for users with visual impairment

2. **Uvagrano Gin**, sustainable design branding project

3. **dichi**, indoor air quality monitor for children

4. **Remnant**, versatile sneakers made of waste

5. **Kenwood**, food processing station for health enthusiasts

5.



SAM BALDWIN BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7581 174 262 about.me/sbaldwin sambaldwindesign@gmail.com









Quick Catch is designed to improve the chances of survival in man overboard (MOB) situations by deploying emergency equipment without relying on human reaction times or competency.

Quick Catch comprises of two main elements – a wearable and an automatic firing mechanism. The wearable detects the fall overboard and uses GPS and real-time kinematic positioning to track the casualty's position in the water.

When the casualty comes into range, the firing mechanism sends an automatic life preserver and connected lifeline into the water. The combination is designed to reduce the risk of drowning and improve rescue times vital in cold water. The foam-cased projectile (3) is deployed up to ten metres (4) using a small 16g CO2 cartridge linked to a receiver tank and pneumatic flow valve.

By removing the firing mechanism from its dock on the stanchion post (2), Quick Catch can also be deployed manually from anywhere on the boat.







DANIEL BALL BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY







Medication Dispenser-

A compact medicine dispenser, for use in the home, that promotes prescription adherence in the elderly population. The design moves away from the difficult to open 'Blisterpack' as tablet packaging and reshapes them into an easier to grip form. These are slid into the top and then the user can select when they want their morning, day or night dosage to be dispensed.

Stretch-

This short project aimed to reduce the risk of injury within newer athletes. With the rise in new people exercising over lockdowns, people lack the knowledge of how to accurately stretch to prevent injury. Stretch guides the user through a stretching routine showing them where to place bodyparts to target the correct muscle groups. This in turn will reduce injury risk and keep people healthier.

Phone Number- +44(0) 7376 489 378 LinkedIn- https://www.linkedin.com/in/daniel-ball-a71a75198/ Email- d.ball15@icloud.com



KYRA BALMFORTH BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY







Norma is a breast health monitoring tool, designed to assist and guide people through a breast check with confidence. To reduce the confusion and provide a safe, supportive place to record results.

Norma maps breast density differences with monthly recordings so comparisons can be made, to ensure any changes are detected. In the app a 3D breast profile is created by the user to map these locations.

Guided 'online' checks can be done with support in the app.

Other symptoms can be logged at the time of the check.

Norma is made from medical grade silicone, ensuring safe contact with skin. The device is also suitable to use in the shower where the user may be more comfortable to check.

The device can be used away from the app for an 'offline' check. LEDs on the base of will light up to indicate areas of the breast which are complete. Finally norma will vibrate once all areas are recorded.



FEARGAL BARBER BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY







The Opioid Crisis claimed more than 75,000 lives in the US alone in 2021- and this number is only going up. My *Major Project (left)* is a product to reduce overdose deaths by enabling faster identification of symptoms and quicker administration of Naloxone, an Opioid antidote.

It consists of a wearable band that detects the warning signs of overdose and alerts emergency services and close contacts, and a redesigned, connected Naloxone nasal spray.

monica (above) is an app to encourage exploration and streamline travel for people living full-time in vans.

DayTripper (above) is a product to make Virtual School Trips more immersive, using AR and VR to create an experiential, adventurous trip in the comfort of the classroom.

feargalbarber.com feargalbarber@gmail.com





BADR BARHOUMI BSC (HONS) USER CENTRED DESIGN







Unify App:

The Unify App is designed for students who are going to protests for the first time. Unify aims to streamline the processes of creating, joining, and supporting protests and the causes behind them. It does this by simplifying the process of creating a protest by integrating everything a student would want to know into one place.

Swaps:

Swaps is a sustainable sneaker app that aims to reduce the number of sneakers that end up in landfills every year. The way Swaps does this is by using Design for Behaviour Change methods to encourage users to be more confident in buying used sneakers as well as being more conscious of sustainability in their everyday life.



ELSIE BARKER BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

https://www.behance.net/elsiebarker https://www.linkedin.com/in/elsie-barker/ elsieca13@gmail.com





Swift // Young individuals aged 18-25 are the most at risk of drowning in open water in the UK. This issue is further exacerbated, as often remote areas have limited access to rescue services or emergency equipment. 1/ Swift is a multi-purpose, portable rescue tool that enables people visiting large bodies of water to feel more assured in their safety. The device itself will be used primarily for recreational purposes to encourage

users to practice through gamification, ensuring they are familiarised and proficient with the use of Swift. 2/ In the event of an emergency, the Swift Sport Capsule (Blue) can be swapped out for the active Rescue Capsule (Yellow). This is installed with a water activated flotation device attached to a line to assist a casualty in distress, without having to ask the user to enter the water and thus putting themselves at risk.

sdcashow2022.lboro.ac.uk/Callum-Beal



CALLUM BEAL BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY



Pros-mate is a non-intrusive EMG device to help prostate cancer patients following radical prostatectomy.

+44(0) 7506568912 © Callumbeal_id Callumbeal90@Gmail.com





WILLIAM BEDFORD BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY



01 / Level-Trace

Level-Trace looks to reduce the environmental, social and financial effect of sewage overflow. It records and tracks the height of sewage, forming predicitons and acting as an early warning system against such events.

02 / Airbnb Consider

This concept aims to support those surrounding Airbnb's; disruption to communities can be reduced by encouraging consideration from visiting guests. 'Consider' involes the neighbour in the service, providing them with a voice and making them a stakeholer within the service.

03 / Medication Without the Waste

Fundamentally changing the outdated and innefficient repeat prescription service as it currently exists.



TOM BELL BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY









Remix is a hand-held DJ controller which aims to teach the core skills required to mix music.

This product is primarily focused towards GCSE music students as the DJ deck has recently been recognised as a instrument for assessment.

The main focus of this project was replicating the DJing experience in a compact, low cost and intuative product for beginners. The two images below are the outcome of week long design sprints.

The left image shows a neuromuscular electrical stimulation device commonly used by elite athletes for isolating and training muscles.

The right image shows a prototype produced to test the ergonomics of an ultrasonic blood platelet injector used by vets to treat injuries in horses.



CLARA BENAVIDES CLARK BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY







I used the freedom of the final year design briefs to focus on designing products that would help people in different aspects of their lives.

My final year project, as seen to the left, is a group of modular products that help elderly people continue their hobby of gardening without letting the aches, pains and body changes that come with aging get in the way. It does this by being a set that can be adapted to their individual needs on a day-to-day basis. This prevents the need for buying a series of varied, and often expensive, tools as their needs change. The main aim is to keep elderly people active in an engaging way so that they prevent the further breakdown of muscle.

Another project is the Sweet Dreams monitor that helps parents sleep train their babies and young toddlers. Linked to the parents' phone, sleep routines are created or selected based on professional advice to best help your little one learn to sleep alone. Other features include various monitors to create the best environment for sleep. It helps put parents at ease and teaches babies to self sooth.







SARAH BENNETT BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY





With the covid pandemic changing how we work and remote home working becoming the new trend, movement continues to be cut from our daily routine. ZEST is a two part product and app that aims to break this sedentary cycle, by integrating 'active breaks' into the remote working day. Active breaks will help improve physical and mental wellbeing as well as work productivity. The app allows users to schedule

active breaks into their work calendars allowing time for personalised short bursts of exercise. The ZESTprompt, which fixes to a chair, notifies users through vibration when they have sat down for too long and when it is time for an active break. The ZESTpad acts as an interactive platform that guides users through a sequence of exercises, tracking their active minutes and calorie expenditure.

+44(0) 7827 922221 https://www.linkedin.com/in/sarah-bennett-2956011a1/ sarahellen1999@gmail.com







ISSIE BICKERSTAFF BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY







As a designer, I'm passionate about people's experiences and emotions.

It brings me joy to connect people together and build bridges between those from different life experiences. I'm committed to increasing inclusivity and championing diversity in everything I do.

Community is at the heart of my design work. Understanding and celebrating the location, culture and history associated with a product is also a major part of my design ethos. I'm inspired by the users and clients I work with and endeavour to create immersive, engaging experiences that reflect this. I design to tell stories.

I feel strongly that it's my duty as a designer to use innovation to genuinely make a positive difference to people's lives.





ELEANOR BLACKLOCK BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY



LinkedIn: Eleanor Blacklock edgblacklock@gmail.com



There is a distinct lack of education for women on how to safely remove pubic hair. Over 75% women have experienced clinical complications including cuts, ingrown hairs and severe itching when shaving, waxing or epilating. Glide is a ceramic trimmer designed to reduce the risk of injury or infection when removing pubic hair. Glide is a small trimmer with an adjustable hinge mechanism, allowing the head to be set to one of 4 angles. This allows the user reach sensitive areas without getting into awkward positions. Unlike traditional razors, the Glide trimmer utilises a ceramic blade. Ceramic is a more gentle alternative to steel, meaning the trimmer can cut through coarse or curly hair without clogging, nicking or pulling.

Education in correct pubic hair removal practices is vital in reducing the likelihood of injury or infection when grooming. The Glide app provides a safe space for women to learn about hair removal and hygiene, through professional advice and information. Within the community, women can share their experiences without judgement or attached stigma.





REBEKAH BLINMAN BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

emailbekstorm11@gmail.comlinkedinwww.linkedin.com/in/rebekahblinmanbehancewww.behance.net/bekstorm/instagram@bekk.design





BUDDI (left) is an assistive device with the primary aim of increasing safety and independence for visually impaired scuba divers. It uses ultrasound technology to inform tactile feedback relating to both the direction and proximity of surrounding surfaces and obstacles.

Vibrational patterns allow the diver to monitor their air and depth, reducing buddy dependence and increasing confidence in the water. Other projects include EZ-GRIP (top left), a multifunctional tool to assist people living with arthritis and NHS 110 (bottom left), a conceptual home-diagnostic device designed to relieve pressure on the NHS.

My skillset includes a high level of proficiency in Solidworks, in which I have achieved both the Associate and Professional qualifications, and confident manual and digital sketching.



CHRISTINA BOOTH BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7738280931 Instagram: @christinaboothdesign christinabooth299@gmail.com





My passion for design is rooted in a real interest in people and the way the world works. I love seeing the impact design has on the intricacies of everyday life and am inspired by the very tangible and direct effect designers can have on the world.

Major Project (left)

Icho is a modular guitar effects tool designed to remove the barriers to creativity existing in current overly complex guitar effects setups. Icho takes a simplified, modular approach, allowing anyone to dip their toes into the exciting world of effects with a product made to be highly usable.

Design Week (right)

Tipple - a smart drinks server that empowers the user to take control of their alcohol consumption.

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HANNAH BRADSHAW BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY











Bolt (1) is a fun, engaging and educational gamified app to inspire young children to reduce their energy consumption so that they can develop positive habits to lead them into their teenage and adult life.

Aide (2) is a physiotherapy multi-tool for people who are recovering from a stroke and want to regain strength in their hands. The Airbnb Travel Buddy (3) encourages safe travel for children by using a GPS chip to track the child's location which can then be sent to the parent's mobile device. The Travel Buddy can be attached to the child's clothing, using the character's ears as a connection point.









CHOMPOST (left) is a smart food waste management bin for domestic households that takes the user's waste and produces a compost material which the user can use to grow new produce with.

The device features a robust shredder alongside a paddle drier system to efficiently dehydrate the food waste and remove associated pain points of separation such as strong odours and pests. (Bottom left,top right) 'SALUS' is a product which aims to improve the safety of Deliveroo rider's by using sensors to enforce helmet wearing.

(*Top*) BLOOM, a UX concept which reduces energy consumption among Airbnb guests through an engaging community donation system.

(Bottom right) Automated coffee machine, a group electromechnical prototyping project

+44(0) 07484 180 535 https://www.linkedin.com/in/louise-briggs-7518181a4 Louise@briggsrus.me.uk



HARRY BROOK BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY



www.linkedin.com/in/harrybrook harrydbrook@gmail.com



01 / Balance

Balance is an app designed to help night shift workers manage different aspects of their life and build better connections with their partners and families.

02 / Pulse

Hearing loss is a huge problem for musicians, as it is both very common and detrimental to many musicians' careers. Pulse is a playing aid which allows hearing-impaired musicians to continue playing by listening to bandmates and giving instant visual and haptic feedback about rhythm, dynamics and frequency. Above is an example of the electronic prototyping for this project.

03 / Airbnb Find

Airbnb Find is a treasure hunt based device for encouraging guests to find local experiences which hosts have recommended.





ASUMADU JR BROWN BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

+44(0) 7493 276 244 Instagram - ajb_designn Brown94a@icloud.com LinkedIn - www.linkedin.com/in/ajb1









PERSONAL SAFETY DEVICE (FYDP)

My final year project looks at personal safety devices, for the vulnerable people who commute the streets in evening hours and don't feel safe secure and protected. this personal safety case with its secondary device looks to solve these exact problems with its various features, such as the squeeze sos function within the case, and the various functional buttons that help to maintain the protection required for the user.

The exploded toaster CAD is a representation of my various CAD skill.

The onyx paintball mask displayed is also a key representation of my cad and manufacturing skill

The hex2o water bottle here also looks to display my manufacturing skills.



ED BROWN BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY





Tracking and relieving wearable, aiding earlier diagnosis of perimenopause. Patch monitors skin temperature and sweat level and uses Peltier technology to relieve vasomotor symptoms. The storage case is used to apply the device, allows the device to be charged and transfers information from the wearable to a supporting app. Surface modelling of a Gillette Fusion Razor, using data Acquisition methods and modelling in SolidWorks.

Design week flippable wall mounted monitor to encourage movement when working from home.

LinkedIn: edbrowndesign Edward@edbrowndesign.co.uk

+44(0) 7855404693



JESS BROWN BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY





01 | Eos

A HRT applicator for menopausal women. Heats the skin to improve gel absorption and makes the overall application process less time consuming.

02 | SHLD

A location tracker for children in large, public places such as airports and theme parks that eases stress for parents/ guardians.

03 | Rise

An application that organises and delegates energysaving tasks for families with unpredictable routines.

I am a passionate and creative individual who enjoys problem solving. My skills include a proficient knowledge of the Adobe suite, Solidworks, electronics and photography. I have recently taken an interest in UX Design and would love to develop these skills further.

+44(0) 7402258263 https://www.linkedin.com/in/jessicakatherinebrown/ 1999.jkb@gmail.com



AARON BRUCE BSC (HONS) PRODUCT DESIGN & TECHNOLOGY









Dynamic ropes are vital for climbing safely and should be retired - if damaged - before they fail. However, signs of wear can be overlooked during an inspection and lead to a fall, the most common cause of climbing injury.

With the number of climbing accidents due to increase in parallel with the sport's rising popularity, climbers need assistance identifying damage to avoid serious harm. RopeMate uses a chuck mechanism that supports a rope as it is pulled through by a drive wheel. Spring-loaded followers track its diameter at four points around its circumference and trigger an alarm system when displaced by damage such as cuts or friction burns.

The user can calibrate the device to check ropes from 7mm to 13mm in diameter.







GREG BURCHETT BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY







01 // Cutting Carbon Out of the Cupboard

Fresh food transport uses 50x more carbon than shipping. Device to encourage re-using toilet rolls as biodegradable nursery pots to grow seasonal produce in the home.

02 // Year in Industry

Motion-graphic animations displayed across all full-size billboards at both Westfields, seen by 87 million per year.

03 // Rythmic Guitar

Bridging the class divide between tutored and selftaught guitarists. A practise aid with vibrohaptic feedback to re-enact physical correction from a tutor sat across.

04 // Skära Energy

The fairer way to split energy bills in shared households. Uses image & text recognition to register wattage of personal devices. Increases mental & financial awareness of energy.





DAISY BUTLER BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY







Aster

A smart device that monitors and reacts to the conditions around your plant to help you look after it better and gain the full health benefits from having it. The voice recognition allows you to have a conversation with the device to hear how your plant is doing and what you can do to keep it healthy.

Sync is an app designed to help families, where one

member works night shifts, to connect together better and reduce their energy consumption and bills. The app allows the users to delegate tasks for the family members to complete, as well as see their energy and water usage. It tells them the best times to use their devices and how much they are saving, along with suggesting articles that can help them to save even more money.

+44(0) 7855281000

LinkedIn- www.linkedin.com/in/daisybutler/ Behance- https://www.behance.net/daisybutler Email - daisybutler33@googlemail.com







MAEVE CALLAGHAN BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY



Instagram: @mooch_mcr moochmanchester@gmail.com



During my time spent at Loughborough University, I have gained experience in design technology, teaching and social media management. Not only though my degree but also my placement and voluntary roles.

I have worked within a school environment, excelling in my sketch development techniques, verbal presentation and my abilities as a leader.

My voluntary role as media officer for Disability Support Network has helped my graphic design and social engagement skills. Being a part of the DSN has provided me with opportunities to raise awareness of all disabilities around University Campus. During my time as a committee member I was able to design and create a University-wide Art Competition called: 'What My Disability Can Do!' Working closely with LU Arts

to facilitate this platform for students to showcase their talents and stories.

After graduation, I intend to progress into a career that offers me the opportunity to implement and develop my wide range of design and technological skills. I would like a diverse role, that is adaptable to multiple aspects of being an Industrial Designer.





MARC CAMPBELL BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

+44(0)793 856 9770 Instagram: M_Campbell_Designs Website: bit.ly/MCampbellDesigns macampbell1999@gmail.com







01. Showcases my final year project - Sanitas. A 3-lead ECG compression vest with GPS tracking.

02. The performance tracker slots into the back pocket of the vest and connects to the conductive thread and electrodes using a 305mm jack.

03. The accompanied app connects to the tracker via bluetooth and is used to track the heart data and gps data.

04. Aeropress coffee machine project

05. Sustainable sneaker project

06. Airbnb Hub - One week live project

I am experienced in CAD, Rendering, Ideation, Programming, UX Design, Prototyping and Mechanical Analysis.

If you're interested in my work I would love to hear from you.



OLIVER CHANG BSC (HONS) PRODUCT DESIGN & TECHNOLOGY





I implemented the concept of modularity on footwear design to reduce its environmental impact (left). The design of a shoe is stripped down to three simplest and essential components. A unique assembly method is developed to maintain the shoe's flexibility whilst securing all components together under high tension. Each component wear out at different speeds and this proposed design allows each of them to be replaced

individually to reduce waste and extend the product lifespan. Another project is a sustainability-focused redesign of lateral flow test kits (right). The aim is to reduce the demand for test kits as well as to meet the demand in a sustainable way. The redesign test kit houses seven test strips and can be disassembled to extract used test strips. To reuse the test kit, new test strips can be inserted.

+44(0) 7778470266 https://www.linkedin.com/in/oliver-chang-5492a9129/ changtailok2012017@gmail.com



HARRY CHAPMAN BA (HONS) INDUSTRIAL DESIGN







'Ambience' is a project that aims to explore design for Generation Rent.

With private renting growing exponentially, designing for the home must evolve to include those whose 'home' is a feeling and not necessarily a consistent place. How can we use product experiences to give renters more spatial governance, combat renter anxiety and help them feel 'at home', in whatever four walls surround them. A packaged sensory customisation device would bring a more versatile aura to a rented space through smart air purifcation and sensory lighting technology. Allowing the feeling of 'home' to become a companion to fit wherever a user may move in the future.

Design for repair and long-life are key pillars of this project, putting a more responsible way of living at the centre of Ambience's product story.






VICTOR WANG GUI CHEUNG BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

+44(0) 7510318554 www.linkedin.com/in/victor-cheung-664a20180 https://www.instagram.com/vcwgdesigns/ VictorCheung1999@gmail.com





Finger Bandager

(left page) is a product that expidtes the process of applying bandages to fingers, skipping the bother some task of cradling one hand while trying to remove the wrappers around the bandage with one hand. There by saving time for the busy individuals such as chefs. Using slightly changed common bandages, it is easy to resupply.

Flex snap 3D

(top) is a catlight holder printed from PLA using a 3D printer. The aim was to explore the advantages of 3D printing comparted to traditional manufacturing. In my design I utilized print in place hinges and snap fit to hold the catlights, along with a flexible strap that was discoved after experimentation to secruly stap onto the bicycle.







LEWIS CLAMP BSC (HONS) PRODUCT DESIGN & TECHNOLOGY

+44(0) 7415 303 524 in lewis-clamp clamp.lewis@gmail.com





I am a versatile and dynamic worker with experience ranging from freelance digital marketing for host of UK clients to professional prototyping of state of the art fitness equipment.

My passion for finding hidden solutions through creative logical thinking has grown throughout University and I'm ready to apply these skills in a new work environment. For my final year project I've dived into the world of visually impaired sport climbing. What are the barriers? What are the specific issues faced by elite para-athletes and new hobbyists? And, how can we provide fair access for everyone to enjoy any kind physical activity?



FERN CLARKE BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

Instagram: @FernClarkeDesigns Behance: FernClarke Linked in: Fern Clarke

Fernyc188@gmail.com





I believe design is everywhere, affects everyone and influences everything. From beautiful products to life changing technology, I believe design should be filled will passion, creativity and sustainable practices and I aspire to reach this in each project I work on.

As a designer I strive to improve our way of living, and the quality of life for everyone. My work is filled with creative problem solving and looking at projects from a new and different angle. I chose to work on 'Flip' for my major project as I, like many sighted individuals, never knew the amount of written content that was unavailable to blind and visually impaired individuals and how this affects their everyday life.

This project challenged me as a designer, pushing me to focus on Human factors, inclusive design and materials.



MEGAN CROSSON BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7920 811 558

Behance: Megan Crosson LinkedIn: Megan Crosson

megan.crosson1999@gmail.com











I am a highly motivated designer, passionate about sustainability and enjoy problem solving. I strive to bring these elements into every project I work on. I aim to work in a company that allows me to further develop my skills as a designer and work on projects that I'm passionate about.

Many individuals have a negative stigma surrounding sexually transmitted infections

(STIs), and therefore avoid going to sexual health clinics. Pair is a kit that allows users to test in the comfort of their own home or safe space.





JOEL CYRIAX BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

+44(0) 7580 811 151 www.joelcyriax.com joelcyriax@me.com







Quantifi: Amongst the 237 million individuals with severe visual impairment around the world, cooking and baking have been seen to be two activities carried out by visually impaired and blind individuals that give them the most sense of independence, according to the RNIB. The aim of my final year design project was to create an inclusive cooking aid for visually impaired and blind individuals, in order to promote cooking within the visually impaired community.

Off Piste: a concept skipole to experiment with the capabilities of generative design and topology optimisation

Inverto: a functioning automated coffee press, designed with the aim of creating a machine that would plunge the coffee whilst inverted

Securoo: a bike rack for Deliveroo riders that utilises a low-cost gyroscope to limit damaged food deliveries and improve rider safety





GABRIEL DAVIES BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY





Biodiversity is crucial to underpinning a stable ecosystem, but currently it is experiencing a sharp decline across the globe. Existing practices for managing wildlife abundance and recording data are rudimentary, inefficient and outdated. The Evos Explorer and Pathfinder provide much-needed innovation for an overlooked area of product development. The Explorer is a compact modular trigger camera designed for professional

use and optimised for extreme environments. It has the option to capture images in any direction using omnidirectional technology, widening the possibility for camera locations and increasing the probability of capturing desired targets. The Pathfinder enables multiple Explorer units to be set up efficiently, whilst tracking camera locations and status. Data can be retrieved from remotely (up to 300m) without having to disrupt camera

location. The embedded background reduction system within the Pathfinder allows for quick mobile photo processing, helping to remove false positive images.

+44(0) 7743 479 323 https://www.linkedin.com/in/gabriel-davies-8a4203196/ gabrieldavies25@gmail.com







EMMA DAVIS BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7778 519 117

LinkedIn: www.linkedin.com/in/emma-s-davis Instagram: www.instagram.com/esd_designer emma.s.davis@btinternet.com







The effect of COVID-19 has made access to in person GP appointments difficult for patients, reducing the potential for early skin cancer diagnosis. Changes in the appearance of a skin mole should give rise to concern, however recognising change can be problematic.

Iris is designed to accurately track changes in skin lesions to detect Melanoma in the early stages. Paired with a stand, Iris forms part of a dual process. Full Body Imaging determines the location of moles across the body, prior to a detailed review of individual cases via Dermoscopic Imaging.

Unlike existing services, Iris enables users to take control of their own skin health. The accompanying app enhances the ease of the experience and creates a portal to send images of concern to a Dermatologist for quick remote referral.



ALEX DENLI BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

+44(0) 7568599300 Instagram - @DenliDesign Denlialex300@gmail.com







Shield

An electrocoagulation micro fibre washing machine filter to separate synthetic fibre particles before entering the ocean to reduce the impact of micro fibre pollution on marine wildlife and ecosystems. Without the need for replacable filters and by separating 90% of fibres through the tested process of electrocoagulation, Shield provides a sustainable solution to the micro fibre crisis.

1/ Shield Internals

All the piping of the device are compact and internally stored. This device is a cheap and effective method that can be implemented in any home

2/ Relinquit

A smart IoT cigarette case to help smokers reduce their daily smoking intake and aid quitting. Connected to an app allowing users to set daily limits, and provide analytic on smoking habits. If daily limit is exceeded the device locks.

3/ Haikyu

An electric coded device used in extreme conditions from mountain climbing to deep-sea diving. Used to calculate the surrounding temperature and pressure, using an algorithm to find your current altitude or depth to the earth's surface.



RAEESAH DHILLO BSC (HONS) PRODUCT DESIGN & TECHNOLOGY





OVA is a pregnancy and fertility test targeted towards women with fertility issues. Unlike a traditional pregnancy test, OVA uses a blood sample instead of urine, functioning similarly to a blood glucose monitor. This allows the user the flexibility to test any time of day and reduces the chance of false positives. A key feature of OVA is that the device is reusable, aiming to prevent waste created by single-use pregnancy tests.

(Top left) Sidney- A Sudden Infant Death Syndrome (Cot death) prevention device.

(Top right) Insolar - A retrofitable adaptive facade to help improve and control the in-home environment and reduce energy wastage.

(Bottom) Airbnb Bloom - A sustainable, energy saving, community focussed Airbnb extension.

+44(0) 7730 372 281 https://www.linkedin.com/in/raeesah-dhillo-85913a19a/ raeesahdhillo@hotmail.co.uk





DEEPALI DHOLAKIA BSC (HONS) PRODUCT DESIGN & TECHNOLOGY









My design approach focuses around non-linear thinking, particularly when solving complex problems with multiple layers of design and engineering difficulties.

Left page from top image clockwise: EASE, a staircase vacuum attachment in two configurations, a close up of the modular aspects of the product, a cross-section of the head of the product. Right page from top left image: DOSE, a monthly pill dispenser to prolong independence in the elderly, AMPHIBIOUS, sketches of the design development process, ANANTA, a discreet sustainable shoe brand.

sdcashow2022.lboro.ac.uk/Alexander-Duff







ALEXANDER DUFF BSC (HONS) USER CENTRED DESIGN







Understanding Scoliosis (left) is a product based system that will allow for the widespread screening for scoliosis within the school population. Screening has been proven to massively reduce severe cases of scoliosis, however the current screening techniques are slow and inaccurate.

Therefore, Understanding Scoliosis was created to not only screen the 10 year old cohort, but to educate parents about scoliosis and how to identify the common symptoms. This system was designed with the aim of reducing the need for invasive corrective surgery to a minimum as this surgery can have future ramifications.

Portable oxygen (right) This project aims to

both increase the standard of living and remove the stigma surrounding those who rely on external oxygen sources. The user will wear a smart wrist strap that will monitor their heart rate and increase or decrease the flow of oxygen accordingly to conserve oxygen. The user will be told how much oxygen they have left in hours and minutes. Finally, the main unit can be removed from the trolly and work as a backpack when traversing uneven terrain.



HANNAH EICKMANN BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7712 734 213 www.linkedin.com/in/hannaheickmann Instagram - @hannaheickmanndesign HannahEickmannDesign@gmail.com





Eva is an at-home Urinary Tract Infection (UTI) test for those who struggle with recurrent UTIs. In the UK, one in five women will experience this in their lifetime. Unlike conventional testing, Eva uses a combination of dipsticks and bio-sensors (similar to those found in blood glucose monitors) to test for bacteria in the urine. This allows patients access to bacteria specific antibiotics sooner, helping to relive pain and clear infections quicker.

(Top) Loughborough Students Women's Rugby Union: social media graphics I have produced throughout the 2021/22 season.

(Bottom) Identify is an Internet of Things device which monitors the levels of humidity in lower socioeconomic housing. Identify helps to keep landlords and councils accountable for the living conditions of their tenants.



CHARLES FISH BSC (HONS) USER CENTRED DESIGN









05.

01. 4th Man Protection - The innovation of male genital protection.

02. Product in context.

03. Impact/ material testing at the Loughborough Institute of Technology.

04. Evolution of Prototypes.

05. Exploded view of protective layers.

Getting hit in the genitals whilst playing cricket can cause serious short and long term problems. With formats like T20 on the rise, batters are taking more risks to score more runs.

4th Man Protection helps shield athletes



This multi-layered design diverts force away from the groin and onto the hips, which are better equipped to deal with the force.

This research was split into 3 main parts: material/ impact testing, comfort and psychological performance which were all combined to make the perfect product.

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MEGAN FLANDRIN BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

+44(0) 7999 412 224 www.linkedin.com/in/meganflandrin/ meganflandrin@live.com







NOMI (a) is a reusable autoinjector which aims to improve trans people's experience when self-injecting hormones as part of their gender-affirming care. The device allows people to insert a syringe and needle into the injector and their own supply of HRT into the dock. NOMI aims to reduce risk, pain, and anxiety compared to traditional methods, and allows anyone with access to the medication the ability to use it with little to no prior medical training.

Déjà Brew (b) is an electromechanical project which involved designing, building, and coding a coffee machine that can rotate and plunge an AeroPress module and produce a cup of coffee.

BALEINE (c) is an aquatic drone that collects surface microplastics using synthetic baleen. It would be used in particularly polluted areas of the ocean, where marine life is facing an imminent risk of extinction.



FONGPING YIM BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY



f.yim.design@gmail.com





(Cover, top left)

The speaker project aims to change the user's experience, such as 'playing music' in a physical way, in which the user may pull and push the bar to change the volume.

(Top right)

The toaster uses double tunnels, in which users could put the toast on the top and after toasted it, the toast will come out at the bottom. Its purpose is to avoid users from getting hurt/burn when they are using the product.

(Bottom left, right)

It is a 3D printing project, as a bike front and rear light, in order to zero assembly and zero support with 1% infill, under the purpose of easyused and manufacturable for the users.



WILLIAM FOSTER BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY





SUBMERGE

Around half of all plastic in the Great Pacific Garbage Patch is abandoned fishing gear, known as ghost nets. These nets float around the ocean for centuries, tangling and killing sea creatures. Several charities, such as Ghost Fishing UK, spend their time diving in the oceans, working to remove these nets.

One of the largest problems these charities face is breaking up the nets to remove them from the seas. Thetis is a bespoke power tool for cutting through every type of fishing net whilst underwater, from 0.5mm wire to 25mm steel cable.

Thetis companions, Neredies, are reconnaissance devices which track the users' location underwater, allowing them to log locations of the net and photograph features for analysis and planning.

WJFoster0@gmail.com



WILL HADLER BSC (HONS) USER CENTRED DESIGN







I am a User Centred Design student with a passion for UX/UI Design and Human Factors/Ergonomics. I completed an Industrial Placement year with the Human Factors team at Atkins, a global design and engineering consultancy.

Over the course of my final year, I have undertaken three major design projects.

1. Recharge. Developing a fatigue management system designed to ensure shift-workers in high-hazard industries recieve optimal sleep, rest and recovery in order to remain fit for duty.

2. Airbnbhub. Designed to forge a seamless virtual relationship between guests and hosts.

3. NHS COVID-19 Breathalyser Test. Develop a solution to challenge the current COVID-19 Lateral Flow Test design, enhancing both sustainability and usability.







SARAH HANNAFORD BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY









CLARITY. A sustainable medical testing device allowing users to test for viruses such as Coronavirus. This device uses a mouthwash to take the sample and the specialist lid releases a solution which is reactive in the presence of Covid, resulting in the solution changing colour- indicating a positive test result. It also has the potential to allow the user to test for other medical conditions such as pregnancy or HIV.

ENERGY. An app educating 6-9 year olds sustainable energy habits to encourage less energy wastage.

CONNECT. A project looking at how to improve hybrid working, Connect allows users to be virtually and 3 dimensionally present, even when WFH.

HEAT SAFE. A 10-day live brief set to improve care at home by communicating the temperature of a pan to the blind.



EDWARD HARPER BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY



+44(0) 7908407003 edwardharperdesign@gmail.com





Inject



This project was undertaken due what I felt was a lack of appropriate injection products for those with reduced dexterity capabilities. Using a wide array of research and empathic design techniques I gathered insight into the motivations and pain points of Multiple Sclerosis patients in relation to administering self-injections. This led to the creation of the design concept, the design aims to streamline the entire process by which users inject, and

allow for a greater range of user capabilities than existing products. The product utilises a custom self-concealing injection capsule and ergonomic hand supports to enhance user capabilities.





ELLA HARVEY BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY









FINAL PROJECT

Last year the UK recorded over 2,500 excess deaths due to heatwaves. Older individuals struggle in the hot weather more than others due to their diminished thermoregulatory system. My product cools and manages body temperature more efficiently and conveniently than current solutions, to avoid the health related risks associated with extreme heat.

ALLIVATE - Group Project

A 5 year course of bespoke immunotherapy and antihistamines, delivered through dissolvable microneedle patches, reduces and eventually eradicates symptoms of hayfever, meaning medication is no longer needed and in turn produces 98% less waste compared to conventional blister packs*. OMEIA

Oximeters are 3 times more likely to miss low oxygen in black patients. Pre-eclampsia is 3 times more common in black pregnancy.

Omeia is a personal pregnancy device to monitor heart health and blood oxygen levels accurately for all skin tones using skin colour calibration, infra-red LEDs and ECG electrodes.





OSCAR HEMMINGS BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7964 604 490 Instagram Oscarhemmingsdesign LinkedIn Oscar Hemmings Behance Oscar Hemmings Email oscarhemmings14@gmail.com





Food waste is a major climate problem that is exacerbated by domestic storage habits. Typically people will leave food in its original packaging, or, move it into plastic containers. These approaches do not maximise food shelf life.

PREP is a multipurpose food organisation and preservation hub that seeks to address this longstanding problem. PREP allows you to keep food fresher for longer through the use of vacuum sealing. The ability to increase the shelf life of food means that food waste will be vastly reduced. This increased preservation will reduce the frequency in which PREP owners buy new food, therefore reducing expenditure.

The PREP hub is a combination of digital scales and a dock for the vacuum pump. The pump seals PREP containers by removing the air from within. PREP containers come in three sizes for different storage options. They also utilise an innovative dating system that helps to manage food stock and ensure that expiry dates are not missed.

PREP containers are made from pyrex, a reusable and long lasting material. This will reduce reliance on single use plastic bags and cling film, two products that are not sustainable.



ADAM HESELTINE BSC (HONS) PRODUCT DESIGN & TECHNOLOGY



@adam_h_design Heseltine.adam@gmail.com





Rolla is a safer shared E-scooter. Indicators, a larger wheelbase, bigger wheels, and improved visibility make the scooter more stable and conspicuous on the road. The integrated helmet offers directions to the user, keeping their eyes off their phone.

The design evolved from extensive user testing, prototypes and concept simulation, resulting in a design that protects both the user and vulnerable pedestrians. The **AeroPress Prototype** is a fully automatic coffee machine built from the ground up. The system, hardware, mechanical function and code were all developed from scratch to produce a coffee machine, oriented around the AeroPress method

Better LFT is a lateral flow Covid test kit with 94% less environmental impact and reduces the weight of a test strip by 97%. Components have been designed to be reusable and recyclable while also encouraging the social responsibility of keeping each other safe.





JOSHUA HILL BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY







1. Design Week

The brief set was to design a product where users take ownership of their physical health.

My solution involved designing for users with sickle cell disease. A probe is used, using technology in a laser doppler flowmeter to predict when the user will have a sickle cell crisis. A heater can then act as a tool to widen the blood vessels and reduce pain. Subtlty is essential as the product is focused on teenages who wish not to talk about their disease, hence a matching skin colour cmf is offered with the product.

2. Major Project

My final year project involved me designing an e-cigarette, service and app, that can help smokers and e-cigarette users quit nicotine but enjoy the positive aspects to using an e-cigarette.



BRYN HOGARTH BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

email bryn.98@live.co.uk linkedin www.linkedin.com/in/bryn-hogarth-41307114b mobile +44(0) 7879 919 491 instagram bryn.designs











I am a resourceful and practical designer who loves to use my imagination and creative ability to develop interesting, original concepts. I've held a number of design roles within the consumer electronics, energy and construction industries.

This year I have been a part of the Loughborough Enterprise Network start-up accelerator programme. This gave me the opportunity to develop my final year project into a comercially viable product through meeting with mentors, consultants & industry experts.

MedTec Smartcuff equips police officers with the ability to monitor the vital signs of a detainee in real-time. It provides an audible & visual alert in the event of a potential medical emergency, enabling officers to respond immediately to the danger of asphyxia.







SRI ELLEN HOLLEMA BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

linkedin.com/in/srihollema/ sriellenhollema.wixsite.com/mysite

sri.hollema@gmail.com







Above: Isla, a home device that prints 3D textured photographs for the visually impaired.

Left: Mat Zero, a heated mat powered by solar energy to provide an alternative, safe and sustainable heating method for refugees.

Finalist for the Central Research Laboratory Accelerator Programme.





Above: Bean, a collaborative project designing an automatic Aeropress coffee machine from concept to functioning prototype.





ELEANOR HOLROYD BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY



https://www.linkedin.com/in/eleanor-holroyd1/ https://www.behance.net/eleanor-holroyd



SKADI *(left page)* is a product system centred around a cooling vest and belt for amateur athletes training in hot weather.

TROVE *(top left, bottom)* is a library distributed across community centres and cafés. Users search the catalogue and add books to the collection using an app. DEJA BREW (top right) is a gesture and voice controlled coffee machine that automatises the inverted AeroPress method.







TOM HUFTON BSC (HONS) PRODUCT DESIGN & TECHNOLOGY







1 ACCUGROW is an embedded soil nitrate tester for helping farmers manage their fertilisation levels.

2 The product uses optical sensors to monitor a chemical reaction which is automated through microfluidics.

3 An app accompanies ACCUGROW to help farmers understand and optimise their fertilisation practices. **4** Outcome of a joint mechanics and electronics project - automating a manual Aeropress coffee maker.

5 Energy hero is a smart app which encourges energy saving habits in children through gamification.

6 MyFirst is a family of smart plant pots for kids which upgrade the experience of growing vegetables.

Please get in touch if you'd like to find out more!

+44(0) 7403 657 584 instagram.com/huftons_handiwork tomhuftondesign@gmail.com



JAMES HUGHES BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY





A consumer floor-care product that cleans floors using water. It has significantly less components than existing solutions and uses less water, improving its sustainability and reducing cost.

A glue gun was reverseengineered using 3D laser scanning and reconstructed using CAD software. Surface modelling was exploited to achieve G2 curvature continuity.

A group project to create a coffee machine. I was primarily

responsible for the CAD and prototyping elements of the project. The machine is built around an 'AeroPress' coffee chamber. Ground coffee brews in the chamber before being forced through a fine mesh filter with a plunger. The coffee machine features a fullyfunctional coffee grinder, ground coffee dispensing system and water temperature monitoring system. The plunger is actuated using a lead screw powered by a stepper motor and gearbox.

james42hughes@gmail.com



SAFA IDRIS IKHERIA BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7847 719 170 Instagram @safa.id.ux nasrinikheria@me.com





Through the use of biomarkers, Michu brings objective data and measurement to the way we diagnose, manage and care for children's mental health. This provides a more accurate and efficient screening process.

The product system aims to contribute to existing processes by utilising the 4 month wait period to gather data. The wearable adhesive patch acts as an emotion sensor to monitor your child's physiological symptoms throughout the day and uses AI to learn and recognise emotional patterns.

The Michu support toy alerts the carer when the child requires support and guides them through understanding and talking about their feelings and practicing coping strategies. The app is accessible to parents/carers and teachers to input further clarification of the scenario which is then logged and can be accessed by the child practitioner in their first assessment.

This data can then be used to support standard screening methods for an accurate diagnosis.



AUSTIN JAMES BA (HONS) INDUSTRIAL DESIGN & TECHNOLOGY

+44(0) 7857 935 474 website: www.aj2k.co.uk austin@aj2k.co.uk







Pantree is a kitchen device, aimed to make users reduce their domestic food waste through management & inventory systems. It's primary physical function is as a set of kitchen scales, which pair with an iPhone, iPad, Android or Android Tablet.

Developed alongside the Pantree kitchen scales is the Pantree App - a digital space for users to track their leftovers, plan their meals and try new recipes! As a by-product of these product features, domestic food waste will be both conciously and subconciously reduced.

The 'rooBell is a device that provides more secure takeaway delivery & expands drivers' reach to allow people to order food while on the go.

Finally, e-ven is an app aimed at university students to help them manage their lives better after moving away from home (some for the first time).











LinkedIn: www.linkedin.com/in/thomaslukejames tljames300@gmail.com



Sentinel (left) is a front door flood guard and connected monitoring system to provide resistance against propertylevel flooding for homes.

Sentinel harnesses the power of water to fill a series of chambers that seal against the doorway to resist water ingress. This project aims to provide both resistance and resilience against flooding through a connected alarm, instruction and control system to increase awareness.

AirLab (above) is a blood test delivery drone designed for the NHS's at-home Monitor My Health service with an in-built centrifuge to expedite processing times and eliminate the need to manually post samples.

This Live Projects submission provided me an introduction into the applications of unmanned aerial vehicles in transport.



JOSHUA JONES BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY







My Industrial Design Major Project outcome (shown on the adjacent page) is a glove for beginner drummers, which aims to prevent Repetitive Strain Injury in the wrist by making the user more aware of extreme movements they may be making whilst playing. This project stemmed from my passion for playing the drums, as well as a desire to push myself out of my comfort zone. The top left image shows a live brief project, in which I designed a system of products for an existing

WWF digital service. To the right of it, a product render produced for Iron King Gym Equipment UK as part of my year in industry. I have taken a keen interest in connecting the digital and physical world through my work, while approaching design in an empathetic way; above, I can be seen bodystorming the experience of an app concept which aims to bring families together whilst reducing their domestic energy consumption.



BENJAMIN JOWETT BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY







(common ground)* explores the relationship between people and their devices in social settings.

With constant alerts, pings and other distractions, technology can make it difficult to concentrate and be present. Frequently, this creates behaviour not reflective of the physical environment resulting in conflicting social etiquette. *Weight* is a visual trigger that sets the etiquette of a given space - creating a distractionless interlude.

+44(0) 7832887321 benhjowett@gmail.com www.linkedin.com/in/benjamin-j-1b7b58152/



KRUTHIKA KADA BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

+44(0) 7546 987 194 https://www.linkedin.com/in/kruthika-kada/ kruthikakada@gmail.com





Dew refreshes clothing between washes, removing wrinkles and general odours so they can be worn again with confidence. (Top right) Clothing is loaded into the device, steamed and dried. A closed loop system reuses and recovers water. Lack of agitation helps increase clothing lifetime and reduce environmental impact.

(Bottom left) Déjà Brew is a prototype in which the process of producing an espresso or americano with an AeroPress was automated.

(Bottom right) you-v is a portable hand-held mask disinfector which utilises UVC LEDs to kill bacteria and viruses on a mask when encapsulated. This allows disposable masks to be worn a few more times before disposal, reducing waste, and reusable masks to be worn with increased assurance of safety.



HANAKO KAWASAKI BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7599 531 155 behance.net/hanakokawasaki hanakokawasaki875@gmail.com









Food is what we consume everyday and is an essential part of our life that helps build our healthy body.

Probiotics are bacterias that help keep your body healthy and working. I designed a clever and unique way of increasing the amount of probiotics in our everyday diet which could then be dehydrated using the Rapid Eco Dehydrator. This dehydrator dehydrates fermented vegetables and fruits at the best quality by preserving their nutrition. It delivers a new approach to of incorporation dehydrated food to your diet.

The dehydrator circulates water at atmospheric pressure to carry heat to the product to be dried and requires 7 times less drying time and offers greater drying efficiency.





ROSE KELLY BSC (HONS) USER CENTRED DESIGN





PASS ON RESPONSIBLY.





The lack of transparency in the fashion industry enables mainstream brands to conceal their modi operandi. As a result, consumers do not know which players they trust.

PROVENANCE provides users with the data to make informed decisions, embrace both sustainable and ethical fashion and look good with a clear conscience.

Blockchain technology is employed to verify that the data stored in the system is immutable and auditable, making it the most trustworthy mechanism to communicate authoritative information to the consumer.

PROVENANCE has the power to pressurise brands

to make more responsible choices at every stage of garment production and provide them with a platform to openly share information about how, where and by whom a product was made.

Over time, collaboration between brands and PROVENANCE will alter the fashion landscape to create a new normal in the fashion industry by making it as open and honest as possible.

The capability to not consume items due to a lack of sustainability or ethicality invariably comes from a place of privilege. PROVENANCE gives all consumers the means to take a stand against brands that do not focus on social altruism and environmental justice and at the same time, provides equivalent but smarter alternatives.




THEO KITTLER BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(7) 957 949582 @kittlerdesign theokittler@outlook.com





01 Klean Kitt irradiates bacteria from athlete training environments, reducing the chances of illness during intense training periods.

This allows teams to gain a critical edge on competitiors as they can maintain performance all year round without the threat of missed training sessions. With the integration of emerging UV-C LEDs, surface bacteria can be killed by up to 99%.

02 Powerie app allows those with electric vehicles to live life with more freedom, not being constrained by long charge times.

03 Liber encourages those living with stomas to live life more spontaneously and empower them to live a life on the go.







MAN HEI SHANNON LAI BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

+44(0) 7426 090 939 LinkedIn: linkedin.com/in/shannon-lai-726496a3 Portfolio: https://issuu.com/shannonlai/docs/ shannon_lai__protfolio Instagram: https://www.instagram.com/slmh_design/

laimanhei6e@gmail.com





01/ Dysphagia is a condition where the user has a difficulty in swallowing and may require food of a specific consistency in order to swallow it.

Hylki is a food capsule device designed to create food for people with Dysphagia. Using specially made food capsules filled with a portion of freeze dried food, Hylki pumps water through the capsule and creates food of the user's prefered consistency in minutes. **02/ Ponix** is a medium sized home planter using hydroponics farming technology for users to grow vegetable at home.

03/ The A**irnb KeySafe** is a check-in device that allows a quick and standardised check-in process for customers through IoT.

04/ Amity. is an app that provides live electricity consumption monitoring for people to understand the energy usage situation at home in more detail.







NAOMI LAKE BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY







Uppcycle - 250,000 tents are left annually at festivals, whether still functioning or not they get sent to landfill. In response to this I created the concept Uppcycle to make use of these materials. The pannier is designed to waste as little material as possible and use of a range of elements from the tents including the fibreglass poles, ground sheets, tent flys and fittings. The bag is designed to be easy to transport off the bike as well as on.

Indigo Revival - Producing denim is an unsustainable process as it uses a large amount of water to grow cotton and the indigo dying process uses harmful chemicals. To combat this I created Indigo Revival where children's jeans are made from old adults jeans. They are designed to be durable and grow with the child to allow them to be used for many years. Once too short the jeans can be cut to make shorts.

+44(0) 7952432596 https://www.linkedin.com/in/naomilake/ naomi@lakefamily.org.uk





JOSHUA LAY BSC (HONS) USER CENTRED DESIGN

+44(0) 7582 455 341 Instagram: josh_lay_ Joshualay2000@gmail.com







Solve.

Running is the most popular sport in the world, solve is designed to keep poeple running. Solve is a smart orthotic which collects data while you are on a run. This data is sent directly to your Solve physio who will suggest what heel and arch support you should have to improve your performance and prevent injuries from occuring.

eBin.

Two major problems within cities are littering and homelessness. This product aims to provide a sustainable system for the future. Through depth detection technology full bins will be alerted on a app where rewards such as tokens are given out for those who collect the bins and drop them off at 'drop off points'.



SZE YUNG LI (CELIA) BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY



Linkedin www.linkedin.com/in/celialsy/ Email celialiszeyung@gmail.com





Improper disposal of Used Cooking Oil (UCO) is a common problem in the UK. Many people lack awareness and knowledge, meaning they pour oil down the sink which causes severe sewage blockages and water pollution. Although recycling for UCO is available on a commercial scale, the recycling services for the general public is lacking. **ReSoap** is a communal-use device that converts UCO and other oils into soap, to reduce household waste and provide an alternative solution to UCO recycling. The aim is to help raise awareness of these issues, while also promoting a sustainable lifestyle for a community.







LUCY LIGHT BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY





I am an innovative designer looking to make a positive impact, whether this is for the environment or by improving the lives of others. (LEFT) NOMA - A device to improve the accessibility of skin monitoring, aiming to allow for earlier detection of Melanoma skin cancer. This device will be situated in easily accessible locations, such as health centres, to allow use by all. By guiding the user into uniform positions, a map of the body

is created. Al analyses the map for any new skin lesions. (RIGHT) Story in the Seam - A business model plan and jean design to encourage behaviour change. The focus is on forming an emotional bond to jeans and educating the consumer on the social issues within the fashion industry's supply chains. The jeans are sold with a story, with patterns linked to each country in the supply chain and by promoting the adaptation of old jeans.

+44(0) 7926 918 499 Instagram: @lucylightdesign lucyglight@gmail.com







TIENYU LIN BSC (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY





Every year, lots of children still lose their lives in earthquakes, mostly because of being hit by falling objects or being trapped for too long without supplies. So I would like to design a desk that would protect students from the falling objects also have the function of storing emergency items.

ProDesk is an earthquake evacuation device, which can be used as a normal desk for two students at ordinary times and can also be used as a shelter for them when an earthquake occurs. There are 5 emergency kits in the middle of this device, which contain emergency evacuation items, such as water, food, a flashlight, a whistle, and emergency treatment items.

LinkedIn - www.linkedin.com/in/tienyu-lin-0268831ab/ Email - lindatianyulin@gmail.com

+44(0) 7421730026



GUS LOYDELL BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7950 5855 42 www.linkedin.com/in/gus-loydell gusloydell@hotmail.co.uk









1. Farmers want to increase the regularity and accuracy of their soil testing but are constrained by time, money, and the lack of modern techniques. AgKnowledge's spectral sensor, relays the soil's spectral signature through reflectance of Near-Infrared light, enabling an entirely new approach to soil testing in a push for a more sustainable farming future.

2. Panasonic Sense is designed to aid the distresses of home living for dementia

sufferers, acclimatising them through various senses to carers and family, aiding in linking associated memories with specific people.

3. Sustainable adherence packaging and associated app, integrated into a rethought and fundamentally improved repeat prescription system. Empowering the patient, through education and communication, to engage with their medication plan.







ZAHRA MANDVIWALA BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7395 8525 49 www.linkedin.com/in/zahram99/ zahramandviwala99@gmail.com @designs.by.zm





1. MAJOR PROJECT

As an international student, I know how exhausting homesickness can be while at university. Heirloom is a product system consisting of a kitchen utensil, thermal imaging camera and an app. It allows students to recreate their family recipes, just like mama makes. It encourages the maintenance of family and cultural connections, mitigating those feelings of homesickness. Heirloom brings home to the kitchen.

2. PATH - group project

PATH is a travel aid for the visually impaired. It utilises a haptic pad and thermal imaging camera to provide clock-like directional vibrations to navigate the user. It provides safe routes, bus timetables, vacant seat identification and narration of the view outside to enhance the bus journey experience, empowering the user to use public transport independently and confidently.

3. NURTURE

New, single parents might not have the support system to raise a baby on their own. Nurture provides a trustworthy helping hand to guide the parent to priortise the wellbeing and care of their baby while maintaining an energy efficient lifestyle.







HARRISON MARTIN BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY





I have a diverse background in many forms of creative expression such as film/ photography, special effects and painting/sculpture.

This is what led me to study design as I am able to use my creative passions and pair them with developed skills in coding/ electronics and mechanics to solve the complex and meaningful issues I pursue within my projects. My final year project is a great example of this as it has concluded with the production of a functional interactive prototype, the Stabilize infusion pump, alongside an AR experience aimed at communicating the products styling using CAD data.

I also make design tutorials and demonstrations which can be found on my TikTok.

+44(0) 7394 087 178 Instagram: @designs.harrison TikTok: @designs.harrison harrisontmartin@outlook.com



HARRY MCLACHLAN BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY







I am a motivated designer and team player, who is passionate about user focused design. I aim to take this into my work and push myself to boundaries. I would love to work for a company where I can continue my passion for design whilst improving my skillset.

Ocular (left), a portable eye diagnostic device for use by professionals in patient homes.

Settl. (Right) A home system for Airbnb which focuses on reducing travel fatigue.





MATT MILLER BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY





Mímir is a device designed to improve the quality of an athlete's independent training by providing feedback and supervision for solo training sessions.

Mímir achieves this through motion tracking, aided by computer vision equipped with stereo depth cameras. Athletes use Mímir to record their training, afterwards their footage is uploaded to a cloud computing service that creates a 3D representation of their movements. Their motion data can in turn be analysed by a trained Al to identify areas the athlete could improve upon, as well as spot potential injuries that could be caused by the athlete's form or movements.

Not only does Mímir make athletes' solo training time more meaningful, but it also reduces the impact of athletes being unable to receive inperson coaching due to cost or lifestyle.

+44(0) 7427 904 970 https://www.linkedin.com/in/matthew-miller-design/ mattjmillerdesign@gmail.com



ANGELINA MOREAU BSC (HONS) USER CENTRED DESIGN











1. Fast paced week long design project for Cambridge Consultants, designing a product that helps users take ownership of their physical health. This product provides women with visual awareness of the menstrual cycle's effect on their body, accompanied with a wearable monitor to help reduce risk of muscular skeletal injuries while exercising.

2. FIXPERTS. Group project for which we developed a product that enables our visually impaired Fixpartner to become more independent when playing board games with her 2 young children. 3. Research and evaluation project, using SAMMIE CAD, which explores design interventions to reduce accidents between vulnerable road users and heavy goods vehicle.

4. Group project developing a smart city app which aims to help local Loughborough businesses adapt with changes to improve city experience for both students and locals.

5. MinaWaste. Internet of Things project which tackles food waste within shared student housing by keeping track of food expiry dates within the fridge.





DANIEL MORRISON BSC (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7722327911 DDMDanMorrison@gmail.com 1/ Resuscitate is a project that integrates Direct Air Carbon Capture technology with a heatpump. This technology empowers people to take climate change reversal into their own hands and effectivly remove harmful CO₂ from the air itself.

Resuscitate is installed infront of the users outdoor heatpump where it will utilise the intake fans airflow generation. The heat pump will passivly pull ambient air over Amine based Sorbent filters which chemically bonds CO₂ molecules from to its surface. When full the filters are removed and exchanged for empty ones.

2/ RESURGANCE is a project which gave users a superior solution to the benefits of consuming caffine. Transcranial Direct Current Stimulation targets the users brain at the Dorselateral Prefrontal cortext before they go to sleep.



SUKI MOSS BSC (HONS) USER CENTRED DESIGN

+44(0) 7415 095 011 LinkedIn : Suki Moss sukimoss@btinternet.com







EXERT (Left)

Eating Disorders in the UK are at the highest they've ever been with 1.25 million people currently diagnosed with Anorexia, Bulimia or EDNOS. Eating Disorder behaviours have been promoted by the use of Fitness trackers due to the obsessive nature of the devices. EXERT is designed to enhance the workout experience whilst discouraging ED behaviours based on research.

AURA (Right)

Recent studies have shown that the rates of PTSD in paramedics are equal to or more prevalent than those in soldiers, with reports of PTSD in around 10% of paramedics. AURA is designed to prevent and reduce PTSD symptoms through tracking cortisol levels; providing the user with preventative or reactive mindfulness session to improve their sense of coherence through smell.





LAURENCE MULLIGAN BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY







Design Week - Have you ever stayed at an airbnb and tried to cook yourself a meal? Can't find a peeler, knifes are blunt, you just don't have the tools you need! "airbnb cook" allows guests to order meal prep kits to the door, using only ingredients sourced from the local area. Don't worry about having the right tools. All the recipes on offer will only use what is provided in your airbnb kitchen caddy. Relax, eat like a local. Final year project - The NHS spend over £750m treating end stage kidney disease. Renibus is the world's first re-usable home testing device for measuring eGFR. Using a mobile phone to perform colorimetric analysis of the user's blood. Renibus allows users to take control of their disease by creating personalised diet and exercise plans based on their results. Users can access these through the app.

+44 7534418737

laurencemdesigns@gmail.com



FELICITY MURRAY BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY





I am a designer with a flair and passion for all things creative and I love seeing my ideas and concepts come to fruition. I am very interested in healthcare design as I like to see my designs make a difference and help people's lives.

nO2madic is a lightweight oxygen cylinder which is small enough for a person to carry around with them using a strap over the shoulder. It has the option to have humidified oxygen to prevent

nasal dryness. It comes with a nasal cannula and tubing which goes easily over the ear across one side of the user's face. nO2madic is a refillable oxygen cylinder which contains liquid oxygen encased in a carbon fibre cylinder. The carbon fibre cylinder is almost 45% lighter than a conventional oxygen cylinder. nO2madic is for people who suffer from Chronic Obstructive Pulmonary Disease (COPD). COPD is a term used to

describe chronic lung disease. Many people with COPD struggle with their mobility and become breathless easily. The currently heavy large oxygen cylinders inhibits an individuals mobility.

+44(0)7512766383 https://www.linkedin.com/in/felicity-murray-4a5158154/ missfelicitymurray@gmail.com







MAHIKA NAIDOO BSC (HONS) USER CENTRED DESIGN

Instagram: mnaidoo_design LinkedIn: http://www.linkedin.com/in/mnaidoo1 Email: mahika.naidoo@gmail.com





MediHome (Left)

MediHome is an innovative management system that helps care home workers with medication dispensing tasks, for example, logging and reordering dispensed medication. There are also elements such as training for carers, reporting functions and the ability to print the MAR in emergencies. MediHome combats the efficiency and accuracy issues of the existing process.

Shine Panels (Right)

Developed as part of a week-long project, Shine panels encourage children with autism to become more independent with their daily routines. Users will set up the modular panel system on a wall and activate them with the adjacent app. As each task is carried out, such as eating breakfast, the user can touch the respective panel, which will light up, indicating that the task is complete.











01/ Sinbad

A live data collection device, initially designed for Olympic rowing races. Sinbad aims to re-write stigmas, encourage viewership and promote funding for the sport through inspirational and eye-catching infographics for athletes and spectators. A two-part product that connects to the bow and footplate. A strong branding focus to limit any disconnect between the physical and visual product.

02/ Buoypro

An ultra-haptic feedback device designed to aid open water swimmers in danger.

03/ ta!

An interactive gift card that connects employers and WFH staff through Airbnb trips and experience awards.

04/ Disney Internship

Projects and approvals completed on the Footwear and Accessories Team.

ecoisine

A circular system designed to incentivise takeaway food consumers to clean and collect plastic packaging to improve recycling rates across the UK



ROMY NORGROVE BSC (HONS) USER CENTRED DESIGN



www.linkedin.com/in/romynorgrove romynorgrove@gmail.com



A

I aspire to deliver an intuitive user centred approach to the design of products, services, and systems by developing creative solutions whilst considering aesthetics, sustainability, and usability throughout the design process.

Return your profits

1

Ecoisine is a stepping-stone service which motivates and educates takeaway food consumers on how to change their unsustainable habits whilst reuse models are being designed for the future.

8

eNESTS is an alternative subscription model to the current 'WWF Adopt an Animal' designed as part of a week-long sprint process. Taking inspiration from Russian Dolls, the product evolves throughout the 12 month subscription and utilises e-learning modules through QR codes, creating a truly engaging and collaborative proposal for curious children.







OLUFEYISAYO OLUWA BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY







Final Year Project

With over 5.45 million people using them yearly, disposable razors are one of the most common forms of hair removal. Yet they are the least efficient, effective and most environmentally unfriendly form there is out there. This system is aimed to extend the life of disposable razors through the means of shrpening, unclogging and ultrasonic cleaning the razors within your own home.

APOYO

An app that supports new parents along their baby journey whilst indirectly promoting energy reducing strategies.

Easan

Easy automated sanitation for high touch poitn areas within the home



CHARLEY ORR BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7810 356 592

Instagram: @codfish_studio Behance: https://www.behance.net/charleyorr01

charley.orr@btinternet.com







Peer-to-peer support in the field is one of the most beneficial strategies to avoid acute stress in the ambulance environment, however the opportunities to fully unwind whilst on call are few and far between.

I envisage CM 1 as a tool to encourage a mentality of mindfulness, offering a chance to connect with coworkers and open a much needed dialogue around mental health.



- T
- 1: Smooth transitional shape encourages interaction.
- 2: Part lines optemised for infection control.
- 3: Handle balances weight reduction with ergonomics.
- 4: Iterative cardboard prototypes.
- 5: 3D printed interaction prototype.
- 6: Nespresso pods used to create fresh coffee.
- 7: Evaluating with users.





OSCAR OWESON BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY





repair ware is a systematic approach to the design and manufacture of products for repair and maintenance.

Small home appliances are seen as disposable items, they break often and are thrown away rather than repaired and maintained. This planned obselence and hostility to repair is designed into our products for increased profits. The project proposes an alternative path, with products designed for longevity, providing the user with the tools and guidance to fix their things. A steam iron and repair tool were built as proof of concept.

Wrist Watch

Surface & Algorithmic Modelling, CAM & CNC

Panomicron Chromium Open Source Compact Film Camera

Solidworks Surface Modelling Excercise Philips Razor

+44(0) 7935 481 392 / +41(0) 79 882 95 75 www.oweson.xyz work@oweson.xyz





SAMUEL PAGE BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7515 136469 Instagram: SamuelPageDesign Behance: https://www.behance.net/samuelmpage LinkedIn: https://www.linkedin.com/in/samuelmpage/ Samuelmpagedesign@gmail.com







Millions of gas canisters are thrown to landfill each year. These are often disposed of incorrectly resulting in countless explosions and harmful incidents. Indi is a portable camping stove that uses induction heating to cook or boil food with renewable energy and zero waste.

Designed with portability in mind, Indi is comprised of an interchangeable battery and heating module which nest within the cooking pot for storage. As a flameless device, Indi can be safely used in any enclosed space and areas prone to forest fires. With the capability of boiling 5 x 250ml cycles of water on one battery, Indi is perfect for weekend adventurers looking to pave the way in a safer and more sustainable future for the camping market.





REBECCA PARADISE BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY



www.linkedin.com/in/rebecca-paradise rebeccaparadise@icloud.com





[1] Cue is an emergency notification system for individuals who are D/deaf or hard of hearing. The system provides peace of mind and independence to users at home, day or night. The products have been designed to have functional secondary uses to easily integrate into the users life.

[2] Allivate is a 5-year course of bespoke immunotherapy and antihistamines, delivered transdermally through dissolvable microneedle patches. This reduces and eventually eradicates symptoms of hayfever, meaning medication is no longer needed. Compared to conventional blister packaging, Allivate produces 98% less waste, per person, per lifetime.

RSA Student Design Award shortlisted.



JODIE PARRY BSC (HONS) USER CENTRED DESIGN



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Sealer Constants

LETTER



I am an ambitious and creative individual, with design consulting and teaching backgrounds. I specialise in UX design, however am skilled in service and visual design with client experience across all three.

1. Ecolip: Innovative service that enables consumers to recycle unwanted lipstick to be remanufatured into new ones.

2. In-Letter: Interactive figma newsletter for IBM interns.

3. Allo: App for IOT connected device that detects users allergens to determine if food is safe to eat.

4: Organig: Personal project to develop UI and front end develop skills.

5. Freelance: Edu-tech startup that empowers students to find career opportunities.

jodieparrydesigns@gmail.com



AMAN PAUL BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7817 162 222 https://www.linkedin.com/in/amankpaul/ amanpauldesign@gmail.com





Non-suicidal self-injury has recently been conceptualised as an addiction, driven by the release that is felt from an act of injury. This has widened the possibilities for treatment methods. Using haptics, an increase of pressure and red light Haven recreates the feeling of a build up and release of tension in the affected area. Over time, Haven reduces the intensity of release felt, removing the user's need for a physical outlet for their emotions.

01/ Users can track their urges, to better understand their triggers.

02/ Portable treatment allows users to receive care whenever an urge may arise.

03/ A clinician interface enables remote patient monitoring and the creation of custom recovery plans, reducing both the user's recovery time and pressures on the NHS.







WILL PELL BSC (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY



Instagram: @willpellcreative wpell10@gmail.com





My final year project looked at redesigning power takeoff (PTO) shaft guards for tractors, with the aim of preventing amputation and death for UK farm workers.

During the research stage, over 150 passionate farmers gave accounts of issues they had with traditional guards: they damage easily, are hard to use, and are ultimately not fit for the purpose of protecting workers from highly dangerous machinery. The 'Easyguard' design philosophy is ease of use; ease of installation; ease of maintenance and ease of replacement.

The clasp and hinge facilitate quick installation, while adjustable end cones make (often skipped) shaft maintenance easy.

Robust materials, modular part design and low-cost manufacturing processes make this a viable alternative to current guards.





AMY PHILLIPS BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY





'Around 9 in 10 women will tear to some extent during childbirth', with most occurring in the perineum, the area between the vaginal opening and the anus.

But by holding back momentarily during crowning, and allowing the skin to stretch, the perineum is more likely to stay intact. Perineal massage can be used to familiarise yourself with this feeling prior to birth, but many find it difficult as their baby bump gets in the way.

As the skin becomes damaged after birth, it tends to be thicker, less flexible, and painful to touch. Again, perineal massage can help to alleviate this problem as it encourages the breakdown of collagen fibres, reducing unnecessary adhesions.

I designed Pericise to assist both pre and post perineal massage.

+44(0) 7508 036 536 https://www.linkedin.com/in/amy-phillips-024370199/ dsalp2000@gmail.com



ISABELLA PHILLIPS BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7757 411 530 linkedin.com/in/isabella-phillips/ ialphil22@gmail.com





Maia is an ecosystem of products that all work synergistically together to empower individuals who menstruate. The tracking device, along with the optional attachments, allows the user to track their cycle, store a range of menstrual products, and ease their menstrual symptoms.

Every component of Maia's ecosystem is designed to be fully portable, enabling the user to carry out any desired task goal, in any chosen environment.

The inclusively designed app allows users to track their cycles, physiological and psychological changes and improve their wellbeing through nutrition and diet, exercise, sleep, yoga and meditation. Users can connect their tracking device and portable diffuser to the app for an optimised experience.



ROBIN PICKERING BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY



+44(0)7767 841168 robin.e.pickering@gmail.com







'Octopo' is a toy, container and applicator for thick viscosity creams/ointments (think whipped cream to vaseline in consistency).

These topical treatments are used to treat dry skin conditions like Atopic Dermatitis.

The product aims to promote the routine use of these in order to alleviate severity by teaching self-care early on in life in an engaging and fun manner. The main interaction point of Octopo, revolves around dosing the cream/ointment onto the skin in a pattern to making the process fun...

Octopo decants a larger dose per twist of the tentacle compared to Corticuttle (the steroid specific decanter. There is also a cooling metal plate that can be used to soothe inflamed skin.







JULINA PICKLES BSC (HONS) USER CENTRED DESIGN

+44(0) 7716 485 527 LinkedIn & Behance: Julina Pickles JulinaPickles@gmail.com





Smart Choice Food (left) This app tackles the issue of food waste to enhance the experience of smart city living. Helping students to keep track of their food shop by notifying them when food will go off and what items are theirs in a busy shared fridge. Recipes are created from their remaining food to suit their preferences. Swapping with local friends helps create a connected and sharing community whilst also reducing bulk waste.

Stroke Risk Monitor (right) This discreet kit measures heart failure biomarker levels enabling users to take ownership and tackle stroke risk, therefore improving their quality of life. Relevant advice is given to the user based on their analysed blood sample data results, meaning that the early warning signs of stroke can be dealt with promptly. It has the potential to not only save the lives of patients but reduce cost and strain on healthcare services.







ISABEL POLAND BSC (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY







ees is a necklaces designed for women who suffer with vasomotor symptoms, such as hot flushes, during the menopause, specifically for those in employment. Utilising thermoelectric cooling technology via a Peltier module, on demand, discrete cooling can be offered at the push of a button. Disguised as an ordinary piece of jewellery, the top components can be removed and replaced to customise for different work environments

or to suit different styles of dress. These spare parts are housed within the charging component which allows for simple, wireless use.

+44(0) 7734867491 @isabeldoesdesign isabel.poland@yahoo.co.uk







LUCY PONTING BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7990 602 016 linkedin.com/in/lucyponting/ lcponting@hotmail.co.uk







Homegrown (left) is a modular indoor hydroponic growing system designed for those without access to exterior space and to encourage a more sustainable way of life. The Homegrown planter enables the growth of herbs, microgreens and leafy greens 365 days a year without compromising interior space.

Talk to Tess (right) is an emotional wellbeing device supporting those at the heart of the NHS. NHS staff frequently experience emotionally draining challenges and it is important they are able to share their experiences and similarly hear what their colleagues are going through too. Talk to Tess is a practical support system reducing emotional isolation.

I am a motivated designer, keen to deliver solutions and experiences with a meaningful outcome. My skills have developed across a variety of projects at Loughborough Design School and during my invaluable placement year at V2 Studios, a design consultancy in London.



ELEANOR POOLE BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY









VERA - Visual impairement Equestrian Riding Aid (left) is a navigational aid for visually impaired horse riders. It uses 2D stationary LiDAR technology to track the riders movements within an arena and detect their proximity to the arena markers and boundary. This information is then communicated to the rider via a headset by audio and haptic feedback.

Vibrational and audio cues allow the rider to ride with more confidence and indepedence, as well as reducing the vocal burden of coaches.

Other projects include LFT+ (top left and right), a sustainable re-design of a Covid-19 Lateral Flow Test focusing on multi-use functionality and at home sterilisation and ABI (bottom left and right), a smart weighing scales concept for Airbnb aiming to improve the experience of trying a new culture through food and cooking.



AILSA POWELL BSC (HONS) USER CENTRED DESIGN

+44(0) 7701 000 172 https://ailsapowell.myportfolio.com ailsalp.design@gmail.com



Regrowth







Nomad is an app that aims to enhance the experience of solo travelling for young adults. The app gives users the chance to explore new destinations and receive personalised recommendations based on their interests.

In addition to this, they can receive real time support and advice from other travellers, as well as record travel memories and mementos through a digital scrapbook.

During 2021, I completed an exchange semester at the Norwegian University of Science and Technology. Here I worked on a concept app called Regrowth, that provides users with access to professional level mental health resources. The apps key features are the Gardens, which represent different therapeutic and psychoeducational programmes, where completing a module or activity forms a new item in the Garden.


BENJAMIN POWELL BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY





Orbit (left) is an interactive storytelling robot designed to teach emotion recognition to children (ages 5-8) with autism and other learning difficulties. The device uses a wide range of sensors that changes Orbit's emotions depending on how you interact with it. While keeping the user engaged, Orbit intends to improve children's emotion recognition skills, an essential ability for developing socially and learning at a young age.

I have a language difficulty, having had an early hearing loss, this has made me a highly visual learner which led me to have an unusual or unconventional take on things. This is ultimately what separates me from other designers, having the ability to see and imagine things in a unique and exceptionally creative way.

Email - benwpowell1@gmail.com LinkedIn - https://www.linkedin.com/in/ben-powell-83918a17b Instagram - @bpowell_design



SEAN POWER BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY













01 / Virtual Reality Headset for Static Bike Training

This project looked at filling a gap in the VR headset market - a headset for VR sport. With a particular focus on indoor cycling, this solution was a particular challenge in differentiation.

02 / Reverse Engineering a Samsung Fino Film Camera

Through the use of harvested scan data, the module task was to accurately surface

model our chosen artefect in Solidworks. This required a thoughtful modelling strategy, a close attention to detail and a critical outlook on my work.

03 / Link

Link is a device that allows the user to quickly communicate with lovedones through voice messages. The result is a reduced disturbance to carers and an increase in meaningful intergenerational conversation.





FINTAN PRITCHARD BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 07904 980218 uk.linkedin.com/in/fintan-pritchard Finti.Pritchard@gmail.com









"Urban Agriculture" is a project that aims to make growing produce within urban environments viable. Allowing high yield and reliability while keeping initial costs low.

With city populations continuing to grow, their dependence on food imports to survive grows more and more vital. During this time residents understanding of the farm – plate process is diminishing. "Urban Agriculture" aims to provide a service, educating residents in an informative yet affordable manner, while utilising the empty, often unusable space within their communities.





CAMERON PUGH BSC (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7548 935 692 LinkedIn Cameron Pugh cameron@littlefort.co.uk





IC *"icy"* a smart water bottle aiming to improve hydration in the millions of adults that are unknowingly dehydrated everyday.

Why are people not drinking enough? Two reasons, taste & lack of habit.

As the bottle chills the water it removes common impurities such as Chlorine, Mercury and Copper enhancing both the taste and removing any odour.

Left Page

Top. Context Bottom. Hero Shot

Above

Top. Exploded View

Left. Filter Material Right. Status Light



AISLINN RIDING BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

+44(0) 7706242286 https://www.linkedin.com/in/aislinn-riding/ aislinnjriding@gmail.com





hitte (left) improves dexterity and performance of lacrosse players that suffer from Raynaud's disease, affecting circulation to the extremities. During an attack, circulation is cut off to the extremities to maintain core body temperature, leaving the fingers to feel cold and numb. hitte is an integrated stick that provides heat to the affected areas to encourage blood flow, maintaining full movement of the fingers so the player's performance isn't impeded during an attack.

Bloom (top right) is a device to encourage bee pollination through the identification of flowers and providing optimal planting and care advice.

Bertie, a motion controlled car (bottom left) was built and programmed to move as a result of the user's hand gestures. Déjà Brew (bottom right) is an automated coffee machine, manufactured and coded in a group to make espressos and americanos.





GEORGE RIDLEY BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY







1. Milli - Blood Pressure Monitor, designed specifically for pregnant women in low resource settings to help prevent deaths from preeclampsia.

2. Working prototype of Milli.

3. User testing of Milli.

4. Electromechanical Coffee Machine - group project designing an AeroPress system to fill a mug with coffee from its base. **5. peep** - A trap camera designed for WWF to encourage children to be more involved in their local environment.

6. SpikeSafe - Internet connected drink spiking detector that warns others in a local vicinity if there has been a spiking incident.





ED ROBERTS BSC (HONS) USER CENTRED DESIGN







Dawn is a work companion that assists users with maintaining a healthy routine and mental wellbeing whilst working from home.

Since the COVID-19 pandemic, home working and it's associated infrastructure has developed massively. A record number of people are now working from their own home workspaces. Whilst this has it's advantages, home working does not come without it's drawbacks. Many younger workers reported a dip in productivity, as well as an increase in work related anxiety and stress.

Dawn aims to guide users through their working days at home whilst offering the company of a virtual co-worker. The product enhances working environments with adaptive lighting, supporting the concentration and productivity levels of the user.



FINN ROSE BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY







800 million aerosol deodorants are thrown away in the UK each year. While they are technically recyclable, they are composed of 75% virgin metal. Furthermore, only 15% of an aerosol can is the deodorant, the rest is a butane-based propellant.

Karma is the first reusable air powered deodorant. The can has a built in repressurising unit that means the user can refill it anytime, with no additional tools. The natural deodorant refills are composed of a two part system. To refill, the user removes the cap, drops in a tablet of their desired scent, and pours in a measured amount of liquid. The can is then pressurised by extending and compressing the body.

The pressure generated from just 5 compressions will last an ordinary user 1 month which is the same lifespan as a conventional aerosol deodorant. One vital requirement from users was that the solution must replicate the feeling of a aerosol as closely as possible. Not only was this achieved, testing has shown that Karma is mistaken for a conventional aerosol 75% of the time in blind studies.





GINA ROSS BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7955004317 https://www.linkedin.com/in/gina-ross---/ ginaross02@gmail.com







Left: UX project with the brief 'design a mobile app that enhances the experience of domestic energy reduction'. Focusing on energy consumption by Airbnb Guests, 'Bloom' integrates energy tariffs into the current Airbnb app experience. Throughout the users stay, Bloom updates the user on their usage, using prompt notifications to suggest ways to keep consumption at a minimum. Right: FMP: Reduce the amount of food waste produced by students', 'fresher' is a flatpack fridge organisation solution given to freshers at the beginning of their time in Halls, designed to help students to manage their new found freedom with the help of a supporting app which provides organisation as well as meal inspiration for inexperienced users. The solution is made using natural waterproofed cardboard.



GEORGE ROWE BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY









Skära is an app designed to better manage sharedhousehold members' personal electricity usage. With Skära, individuals only pay for what they use, not what their housemates consume.

Skära aims to encourage more mindful energy usage thorough transparency, whilst alleviating tensions caused by shared bills. VIA (Visually Impaired Assistant) is a handheld device designed to reconnect blind and visually impaired sports fans with the game they love. VIA tracks the path of play with a raised surface under a fabric display, allowing users to feel the action unfold.

The device aims to improve inclusivity in sport and provide an elevated live-game experience for the user.

1

2



EVIE RUSHTON BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7428 146 306 www.linkedin.com/in/evierushton evierushton@hotmail.co.uk









Given the importance of hair to our self-esteem, patients with androgenetic alopecia suffer from a great impact on their quality of life. However, the positive psychological effects that can be encountered from education and a holistic treatment plan are huge, allowing the user to take control of their disorder.

Using biometrics and AI, Strand enables users to monitor their hair density independently and gain personalised support without having to wait long periods of time for expert interpretation.

With the ability to lease the device, users have flexible access to a private solution that blends seamlessly into the home.

Studio of Graphics is my side business which often involves developing brand identities for clients. Recently, I have created graphics for a prejudice reporting tool developed by Cambridge council for use in schools.

I am an empathetic designer with the ambition to provide delightful user experiences. After my time at Loughborough and my placement at Unilever, I have gained invaluable skills that I hope to only broaden further in industry.



CATRINA SALISBURY BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7890 112333 https://www.linkedin.com/in/catrina-salisbury salisbury.cat@gmail.com







AYUDA (left and top) predicts oncoming freeze of gait in Parkinson's patients, triggering a vibration in the handle to help the user break the freezing episode.

The electronic prototype demonstrates key interactions, including the handle ergonomics and the user's response to the vibrational stimuli.

Magnetic stands hold the walking stick whilst it is wirelessly charged overnight.

CAPTURE & RECALL

(bottom) is designed to alleviate the taboo around death, making it a celebration of the life lived.

Capture records important memories throughout the user's life.

ReCall replays these life events in their last days of life. Through projection, sound, temperature, and tactile sensations, it immerses the patient and their family in these memories.





AARON SALTER BA (HONS) INDUSTRIAL DESIGN & TECHNOLOGY





1. BioPill - RSA Shortlist : Without the Waste

Biopill is a sustainable medication concept, whereby the exterior protective packaging becomes the dispenser, dispensing pre-dosed biodpods of medication with bold time and date reminders, bettering adherance. It is part of a wider service system, whereby the user receives weekly medication deliveries, and can exchange their used biodegradable pods with the courier.

2. Enhanced Air Clean - Airbnb Design Week

Enhanced air clean is a physical addition of the digital enhanced clean 'sparkle' currently used to identify apartments who follow a more strict cleaning procedure following covid. Drawing upon ULV fogging technology, the device disperses a fine mist of high grade infectant to kill 99.99% of pathogens in the air and on surfaces between guests checkout and check in times.

+44(0) 7900 215042 www.aaron-salter.com, @salterdesign aaronsalter1706@gmail.com









ELEANOR SAUNDERS BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7719 116695 instagram: ea.industrial ea.saunders146@gmail.com





Hi, I'm Eleanor. I specialise in the front end of the design process particularly research and ideation; skills that have been developed during my placement year with the Research assisted innovative design team at Shark Ninja.

The page on the left shows my project for design week 2022; the brief was 'to develop a physical product for a service based brand'.

The 'digital concierge' for AirBnb, develops the

renting platform for longer term travellers who want to immerse themselves in a community. By increased communication with host and smaller community events.

The page on the right shows my IDMP concept Clarity. Clarity is a haircare tool that using hormonal and visual data creates a personalised shampoo for women experiencing hair loss as a result of menopause.



NICHOLAS SHERIDAN BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY





My final year product is a unique countertop appliance which has been designed in response to the growing 'NoLo' drinks market.

The product allows users to reduce the alcohol concentration of their alcoholic drinks at home, whilst having limited effect on the overall taste. This is achieved by taking advantage of a separation process called pervaporation. This is a process whereby the drink is

passed through a membrane subjected to a vacuum. In doing so, removing the ethanol, whilst maintaining the flavour compounds. The ethanol is then collected within a separate container, where it can be safely disposed. The product works in accompaniment with an app, which instructs the user through the product's functions. The user can also select the current and wanted alcohol percentage through the app.

+44(0) 795 690 0042 https://www.linkedin.com/in/nicholas-sheridan-89b7211b8 nicksheridan2208@gmail.com







SABRINA SKILLING BSC (HONS) PRODUCT DESIGN & TECHNOLOGY

+44(0) 7818 888 464 www.linkedin.com/in/sabrina-skilling sabrinaisskilling@gmail.com





CAPTURE

Capture is a physiotherapy product system for people with shoulder injuries. It aims to motivate and engage patients in their at-home shoulder strengthening physical therapy program to improve adherence to treatment. The device captures movement data, using the on-board inertial sensor, which is displayed back to the user through the connected app.

CHOMP

Chomp is a portion control product system designed to be used by parents and their child to educate them about healthy eating habits. It uses light levels and haptics to indicate when the correct portion is served to avoid the use of numbers.

For more details on these projects please visit: sdcashow2022.lboro. ac.uk/sabrina-skilling







ABRAM SMITH BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7584 074 944 Abramsmithdesign Instagram (Industrial design) AS.printcollection Instagram (Print/Art design) Abramsmithdesign LinkedIn

Abrams4346@gmail.com





As a sports player, there's nothing worse than having a pair of boots that plague your house with an offensive smell. Score Fresh fits into a player's post-training and game routine to keep their boots clean and odour free.

Two pre-set buttons control the amount of steam the boots receive, which safely destroys the bacteria that cause odour.

The product pairs with scented de-ionised water to add an extra burst of fragrance to your boots.

Featuring a fan assisted heater, Score Fresh can dry out a pair of boots after general use or a steaming cycle, and can function as a boot warmer.

The interface mounts on a modular and upgradeable base, with five easy-to-read tactile buttons raised from its surface.

Score Fresh has been designed with assembly in mind and splits into two halves containing the heating and water components separately for ease of maintenance.







JEMIMA SNELSON BSC (HONS) USER CENTRED DESIGN







Children feel self-conscious and embarrassed using their inhaler in public. This collapsible spacer and inhaler aims to combat this. The spacer collapses into a key ring in the form of an apple. The giraffe inspired inhaler has a speaker that will give clear verbal breathing instructions. The bag attachment enables the child to secure the inhaler to their bag like a keyring. There is also an app to encourage usage.

Climbing the world's tallest peaks presents extreme physical and mental challenges, yet they are a magnet for adventures. The atmosphere thins with altitude, causing hypoxia. It is difficult to carry numerous heavy oxygen cylinders up the peak and the dependence on oxygen tanks should it run out poses massive risks. This design uses algae to convert carbon dioxide into ulimited breathable oxygen using solar power.

+447926014495

Linked In: Jemima Snelson Instagram:Jemima_SnelsonDesign jemima.snelson@icloud.com



MEGAN SNEPVANGERS BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7771 228 178 Insta: @safex_firesafety Twitter: @safex_firesafe megansnepvangers@ymail.com





SAFEX is the peace of mind device to help you independently escape toxic smoke and take control of your safety.

The government has forgotten about the risks that people living in high-rise buildings still face. There is a real breakdown in trust between the establishment and occupants of high-rise buildings that means fire safety remains on the back burner. Safex addresses this fire safety issue and places control back into the hands of ordinary people. Its' simple and intuitive design is unique in overcoming communication barriers. With up to 2 hours of filtered air, this easy-to-use device not only facilitates immediate escape but also reduces anxiety for those people who are subject to a stay put or Personal Emergency Evacuation Policy (PEEPs). **SAFEX** works in 3 simple steps:

STEP 1. Pull the tag STEP 2. Put the device on STEP 3. Escape







AASHI SRIVASTAVA BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

+44(0) 7854 452 271 Instagram: @aashisdesign https://www.linkedin.com/in/aashi-srivastava-327a07199 aashisdesign@gmail.com







01/ A perineal tear is an injury to the vaginal/rectal skin and soft tissue, the unspoken consequence of childbirth.

In 2020, around 36,800 women suffered from third/ fourth-degree perineal tears in the UK alone (requiring major surgery). Sutures take 6+ weeks to heal and perineal pain lasts 6 months and often much longer.

Designed in collaboration with leading UK birth trauma experts and healthcare professionals, Maia is the first perineal tear recovery kit providing women with on-demand, low maintenance and reusable cooling pain relief, as well as tear surface temperature monitoring for early infection signs (the Maia app tackles emotional needs).

02/ Oculo is the first truly patient-centric retinal imaging device, giving diabetic retinopathy sufferers the ability to monitor their eye health/condition progression in the home and on the go.



JACK TAYLOR BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY



LinkedIn: www.linkedin.com/in/jack-taylor-961898192 Email: jacksolotaylor@gmail.com



KUSOKA (previous & top), is an industry standard sewing machine designed to be manufactured and used within the context of Malawi.

In Malawi, where the majority of the population lives below the poverty line there is a need for alternative sources of income. KUSOKA allows people to set up small tailoring businesses and to generate a consistent income.

The materials and manufacturing processes

used to create KUSOKA were chosen based off how effective they are in the context of Malawi. This led to the laminated wood frame and anodised aluminium casings which set it apart as a visual piece as well as a function driven product.

MoMed (bottom), is a future thinking prescription service which replaces traditional brick and mortar pharmacies with mobile/bus pharmacies.

sdcashow2022.lboro.ac.uk/lewis-teasdale



LEWIS TEASDALE BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY







Meet Pulse, a family of products that aims to transform conventional patient/cardiologist relationships into empowering and connected ones.

The Pulse system features 3 core products; The Garment, The Device and The Hub. Dry electrodes printed onto The Garment help to create a comfortable, home 6-Lead ECG monitoring solution, that produces meaningful medical data and can be worn in a range of environments. This wearable is powered by the compact Pulse Device, which also provides data storage for further review. The Hub tracks and displays patient progress and features wireless phone charging for seamless daily lifestyle integration.

Pulse is a system loaned out to patients that aims to eradicate the fear and uncertainty that many feel during cardiac rehabilitation.



LUCY TEW BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

+44(0) 7902 843 759 https://www.linkedin.com/in/lucy-tew/ @lucytewdesign lucy.tew.uk@gmail.com







Spektral is a tactile, experience led solution to developing film at home.

Within the past 5 years there has been a resurgence in film photography, specifically within the gen-z market. They exist within a digital – analogue hybrid where they deeply value the hands on experience of film photography, but still desire the ability to share their images online. These users have been excluded from current home film developing solutions, where the perceived risk of losing their images is much higher than the potential reward.

Spektral allows users to feel confident in the developing process through clear step by step interactions, as well as through introducing a daylight loading tank into the system, removing a key pain point from existing solutions. An additional aspect unique to Spektral is the scanner, allowing users to scan their negative images with their phones as soon as the developing is complete.



KARENZA VENABLES BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY



Website: karenza.design / Instagram: karenza_design karenza.kv@outlook.com / contact@karenza.design



Aquarius is a simple, portable and, easy to use water quality tester intended for regular water users. It uses microfluidic technology to rapidly test for the presence of Norovirus and E. Coli in bathing waters and uploads the results to an app, accessible to anyone. Currently, the small quantity of water quality data available is difficult to understand and outdated before it's even published. Aquarius puts accurate, understandable,

real-time water quality data in the hands of water users to properly inform them about their bathing waters.

Our Footprint (bottom left) is a smart home product for young families that encourages sustainabe living by offering achievable, accessible and affordable lifestyle changes whilst tracking the user's indidual and household environmental impact. It's intended to work alongside the WWF app: My Footprint.





ALEX VENTERS BSC (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY





(Left) Final year project: Riley, in venue drink spiking testing. A victim can request a cartridge to test either a drink or urine. This can be inserted into the device to take a reading. The results will appear on screen and a report can be save to their phone. The report will included a unique test ID, which can be entered into the Riley app. The app will give a timeline of possible actions to take, based off the course of the identified drug.

(Right) Live project:

Deliveroo Kitchen hub. A one week project to design a smart product for a chosen digital brand. Kitchen hub allows customers with allergies feel safe by highlighting allergens before they hit checkout and on the food box. It helps chefs stay on top of personalised orders by lighting up to signal customisation and beeping when an allergen sensitive order is being processed.

+44(0) 7769 5598 48 linkedin.com/in/alex-venters-9a61701b3 Alexandraventers@gmail.com





CHLOE WAN BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY







DROP - Music in Motion (left)

Music experience for the deaf. Based on synesthesia, Drop is a multi-sensory device that allow hard of hearing people to experience music. Consisting of a music visualiser paired with a tactile wearable, Drop can be used in domestic and public environments.

AROMÉ - Food Aroma Printer (right)

Made for indecisive chefs. Aromé uses microencapsulation technology to print 'scratch and sniff' food aroma samples that allow users to smell a dish before cooking. Diversify diets with recipe previews from Aromé.

@clw.design linkedin.com/in/chloelwan/ chloe.wan@hotmail.com



DANIEL WARD-THOMAS BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

+44(0) 7771195379 https://www.linkedin.com/in/daniel-ward-thomas/ https://www.instagram.com/danielwtdesign/ DanielWardThomas@Gmail.com





The last 100 years have seen a huge change in the global structure of the human population, with the majority of people now living in urban rather than rural environments. An assumed consequence is that people will have fewer experiences of nature, and this could have important consequences given the myriad health benefits that they can gain from such experiences.

To combat this **Versorium** is a window integrated with biophilic design to encourage people to reconnect with nature in an increasingly urbanising world.

Often people are living with no access to a garden and limited living space. This window helps bring nature into your home, without the downfalls of indoor growing. The unique mechanism allows for planters attached to the inner window frame to be moved from inside to outside easily with the ability to rotate a full 360°, while still functioning like a normal window. For example, herbs could be kept outside where there is sun and rain and be brought inside and harvested or permanently kept inside to protect them from harsh conditions.

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2. Connecting

6

4. Explore

5. Recharge

 View Highlights Users men the dest hybridity and in process must five for strate to other to see all ords or with filering



TORIN WARD BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY



twportfolio.webflow.io wardtorin@gmail.com





MOMENT is an airbnb branded wearable which captures the best moments of your holiday. The e-ink display's UI is focused on simplicity and user privacy making it obvious if and when the system is recording.

JIBBER is an augmented reality language learning app and trading card game targeted towards children in multilingual households. My role in this group project was as the only UX designer. VELO is a bike rental service based upon the needs of students who don't live near to where they study.

TACTILE is a VR controller with novel inputs and customisable touchpad tactility. The project arrose after seeing controller design stagnate since 2015. The most ambitious parts of the project were the inclusion of surface modelling, MSLA 3D printing and a fucntional prototype of the tactile touchpad.



ADAM WEIR BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY

GRO Design | Slimdesign internships Certified Solidworks Expert +44(0) 7961362224 adamweirdesign@outlook.com





1.

Aiuto is an adaptive assistive device, that grows with the user. It promotes aging with dignity and a hopeful transition into later stages of life, challenging current societal perceptions of 'products for seniors' which are often a badge of infirmity.

As users' mobility requirements change, aiuto can be evolved with modular additions to the 'core' frame. The device is ultra compact and the shopping bag folds up to become a rucksack, creating appeal for a younger demographic.

2.

Our Royal Society of Arts competition entry to design sustainable medicine packaging.

3.

A design week sprint project that explored creating a better wakeup and winddown experience.



LAURA WEIR BA (HONS) INDUSTRIAL DESIGN AND TECHNOLOGY



+44(0) 7554560478 lauraweir1602@hotmail.com Ø weirldesign_ 🖬 https://www.linkedin.com/in/laura-weir-a29b25187/



AIMA is a two-part product and system aimed at reducing period poverty and menstrual plastic waste for all who bleed.

2 billion menstrual products are flushed into our water systems in the UK each year, putting huge pressure on our infrastructure and destroying our environment. Even though people know it is not sustainable, 54.2% of the 285 users asked said they prefer using disposable tampons. AIMA is designed to make reusable tampons the more attractive option.

The on-the-go case holds a reusable applicator, 6 x clean non-applicator tampons and up to 5 used tampons as the clean ones are used. A clickclack' mechanism enables the applicator to be easily lifted so the applicator can be cleaned discretely, even in public.

The home product comprises of a steamer to sanitise the product at the end of the day, and a self-sealing bin and bag which is used to store the used tampons until they are sent off to be pelletised and burned for fuel.

Users sending off their tampons to be pelletised are incentivised by subsidised tampons, reducing the cost of menstruation and helping to diminish period poverty.



ALICE WHITTLE BSC (HONS) USER CENTRED DESIGN





In final year my major project was research based. This was conducted on checkout design and its impact on Musculoskeletal Disorders in cashiers with a focus on employees over 50. Cashiers are one of the top ten occupations most likely to develop Musculoskeletal Disorders. This is due to their exposure to repetitive motions and awkward postures alongside other factors. The Primary research involved creating online surveys, conducting interviews and observing a cashier's work tasks. An ergonomic analysis on current till design was completed in SAMMIE CAD to understand the issues with cashiers' tasks and their work environments. Recommendations were then made for adapting checkout design to reduce the chance of Musculoskeletal Diseases, increase employee comfort and therefore increase job satisfaction. Secondary research into journal articles and legislation was also completed. Findings were then written up into a report.

One interest of mine is crash investigation. During my time at Loughborough a number of modules allowed me to pursue this interest further. This included Vehicle Safety for Design which gave me a greater understanding of crash testing and current passive and activity safety systems. As well as Virtual Product Evaluation which allowed for analysis into blind spots for HGVs with relation to Vulnerable Road Users. In my third year I took part in a Fixperts group project. Fixperts is a learning programme that challenges people to use their creative skills to produce an innovative solution to an everyday problem for a specific individual. Our fixpartner was visually impaired, and struggled to locate their separate magnifying glasses when out and about. Through an iterative design process with our fixpartner we created a final product, which was a series of portable magnifying lenses in a fun custom case design. Working through the whole design process with a team and providing our fixpartner with a physical solution was very rewarding.

I also studied at the Shibaura Institute of Technology in Tokyo for a year (2020-2021). However due to COVID-19 I was not able to make it to Japan and attended online. I completed fifteen modules and averaged a S grade (90-100%). The modules ranged from Colour Theory to Transportation Planning this broadened my skill set and gave me exposure to different teaching techniques.

In the future I would like to continue to develop my skills as a designer in a collaborative fast paced work environment with a focus on research and user-centric design practices.



NOAH WILLIAMS BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY



Email:noahwilliams2@gmail.comLinkedin:www.linkedin.com/in/noahwilliams2Instagram:@noahwilliamsdesign



Arya (left) is a portable altitude generator, designed to make altitude training more accessible to athletes. It can both increase and decrease the percentage of oxygen inhaled by the user to aid with recovery and simulate altitude respectively. By pairing this with a wearable pulse oximeter, the device ensures the user's blood oxygen percentage is always within the optimum range to achieve the best results.

Other projects include Manta, a water quality checker and safety device used during open water sports, a Deliveroo bike light designed to reduce the users blindspot while wearing a large backpack, a coffee machine which fully automates the use of an AeroPress module and injections moulds to be used with PlasticPreneur machines to help create small scale plastic recycling workshops around the world.



ANTONIA WILLOUGHBY BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY

+44 7972357391 www.linkedin.com/in/aywilloughby

Design: www.antoniawilloughby.com antonia_willoughby@yahoo.com @awilloughby_design

Business: www.aywcreative.co.uk antonia@aywcreative.co.uk @aywcreative





Hair Easy



Hair Easy

The average hairdryer is replaced every 2-5 years often prematurely due to uncertainty in the product's health and efficiency.

Hair Easy is designed with sustainability at it's core.

It's assembly ensures easy and intuitive home maintenance and repair without the need for specialty tools, featuring upgradable and interchangeable parts. The Hair Easy app utilises Bluetooth technology to help the user diagnose and fix their product in live time with access to tailored support.

About Me

Sustainability has always been a core focus of mine. Whether that is through digital or physical products. During my placement I started AYW Creative, a design and marketing company centred around creative strategy (see contact information – left).





REBECCA WOO BSC (HONS) PRODUCT DESIGN AND TECHNOLOGY









Congenital Heart Disease (CHD) is one of the most common birth defects, affecting 1 in 100 babies in the UK. CHD is an incurable condition and in most cases, requires ongoing monitoring throughout a patient's life.

The product is a companion monitoring device for 8-12 year-old children suffering from CHD. It enables them to become more independent and confident in monitoring their condition within the home environment. The device incorporates a variety of features to provide personalised, approachable care, and a more user-friendly experience.

Key features include: 3 types of monitoring technology (ECG, pulse oximeter and digital stethoscope), a night mode option, a compressible body making the product huggable, customisable silicon casing, and the option to add accessories.

+44(0) 7977 584000 LinkedIn: www.linkedin.com/in/rebecca-woo-a882241a0 Email: rebecca.pjwoo@gmail.com



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