Product Design
at the
UNIVERSITY OF THE WEST OF ENGLAND

Graduate Show
2016
Welcome to this celebration of the achievements of the UWE Product Design graduates of 2016.

Their fantastic projects showcase how design can be used to solve real problems in the real world and demonstrate excellence in research, styling, technology and human-centred design.

This year UWE Product Design has built greater connections with industry, with five highly successful live projects and a record 45% of second year students enrolling on placement year.

In 2016 UWE Product Design celebrates scoring 100% overall student satisfaction in the National Student Survey for both Product Design Technology and for Creative Product Design. We thank all of the students and staff for their passion, positive feedback and hard work.

Congratulations to our graduating students, we hope you enjoy their work.
Creative Product Design graduates are highly skilled creative problem solvers with an empathetic understanding of people.

The course instils graduates with the confidence and ability to take risks, challenge conventional thinking and design products, services and user experiences which surprise and delight.

At the heart of Creative Product Design is studio-based teaching, consisting of small friendly student groups and close contact to tutors, who all have expert experience working as professional designers. Through real world design projects, students develop an empathetic, intuitive understanding of people, tactile ergonomics, creativity and materials, as well as advanced skills in concept sketching and semantic form, model making and CAD.

Graduates of Creative Product Design have strong transferable skills, allowing them to have successful careers in Product Design and across the creative industries, including; service design, graphic design, brand consultancy, retail design, design research, marketing and packaging design. The diversity of skills and experience gained make them highly employable by industry as designers and set to succeed in their own business ventures.
Introducing Source, an initiative devoted to improving the hydration of teenagers by improving access to free tap water in secondary schools.

The attractive redesign of traditional community water pumps, delivers the water into the hydration vessels that are given to each student at the school.

“Shares core values with the Victorian health initiatives that massively improved access to free public water”
Titan
HEAVY DUTY PHONE MOUNT

Titan is a heavy duty phone case and mount combination with a renewable charging solution which ensures that Mountain bikers will always have reliable means of contact with the outside world in a remote and hazardous rural environment.

“I’ve broken three phones in the past year whilst Mountain biking!”

Jordan Batts

07826 269 259
jordan2.batts@live.uwe.ac.uk
Roam’s arms will guide you around town, towards events, landmarks and friends for impromptu cycle rides. Roam is more interested in you having a great ride than calculating the calories you’ve burnt or your average speed.

Make your journey, your own.

Matthew Berry
07902 803 452
matt.berry.92@gmail.com
mattberrydesign.com
The Sleep Agents
YOU CREATE THE HERO!

Meet the Sleep Agents, a plucky group of characters designed to help children with ADHD.

The Sleep Agents is a customisable comic series designed to help children with ADHD, primarily around the issue of sleep. Using a range of different techniques and products, the series encourages children to develop their own way of managing their ADHD and get a good night’s rest.

Abi Brown
07518 825 599
abibrown@rocketmail.com
This is a wearable device used to improve sitting posture. By connecting to the phone app, you can receive real-time, constant data for the shape of your spine and get alert notifications when your posture is poor. This technology protects the spine from too much pressure because of bad posture.

"People often aren't aware of their poor posture. Spine increases awareness and helps to correct it."

Lu Chen
07427 687 746
13915575283@163.com
Tawny
SLEEP THERAPY & DEVELOPMENT TOOL

“My sleep is very important to me but I simply can’t afford to spend over £100 to help improve my sleep.”

Tawny is a fresh approach to sleeping allowing the user to both benefit from the products physical features and embrace the science behind how we sleep in order to develop their routine, enjoy sleeping again and become an effective sleeper.

Luke Davies
07432 636 093
lukedavies95@sky.com
“Giving used natural produce a new life – that is thoughtful design for today & tomorrow”

A bespoke concept meeting your exact needs, (GRAIN) is easily adaptable to suit current & future living spaces. This unique furniture solution grows with you (& it’s made from spent beer grain!).

Jack Evans
07590 844 548
jackwevans@hotmail.com
linkedin.com/in/jackwevans
Totem Takeover
THE GAMIFICATION OF NATURE

4 teams across the country battle it out trying to gain as much territory as possible!

To do this they must build and make using materials in the forests and tools in the totems.

Totem Takeover puts parents minds at ease when letting their teens go out unsupervised, which allows them to be truly creative.

“Claim nature in this exciting new game that uses technology as the driving force behind getting kids back outdoors”

Robert Fossett
07791 803 588
robfossettdesign@gmail.com
Discover Buddy
YOUR PERSONAL EXPLORER

"Parents felt they had taken their youngsters childhood for granted and it was easy to forget they won’t be young forever”

Discover Buddy is the first bonding aid and game of its type that can help boost strong relationships between busy working parents and their children. Created to get children completing challenges and earning rewards together with their parents’ through discovery and adventure. Compete, collect, capture memories and create a bond.

Jake Frank
07866 843 252
jakefrank2005@gmail.com
Bambed
SUSTAINABLE BY NATURE

“A natural material which can be recycled or re-used would be a benefit to an industry criticised for the amount of waste it generates.”

Bambed is a one of a kind self assembly bedframe for children aged 4-12. Made using natural Bamboo poles in their rawest state for maximum sustainability. A unique, recycled HDPE grip fitting, allows for the varying sizes in Bamboo poles, making this the only self assembly Bamboo pole furniture piece of its kind.’
COMFORTABLE EWE, PAIN-FREE YOU

“Your back is important, so take the right steps to protect it.”

Targeting a genuine commercial need in the agricultural market, Stance focuses on providing a safer experience for smallholders. It allows the user to safely secure a tipped sheep, offering hands free control of the animal and storage for tools and equipment, whilst in turn reducing strain on the users’ back.

Alex Hardisty
07854 777 405
alexghar@btinternet.com
uk.linkedin.com/in/alexhardisty
Pulse Pods
FUN WORKOUTS WITH YOUR FRIENDS

With its team game pods and an emphasis on fun, Pulse encourages Millennials to want to participate in exercise.

This workout game is built around the values of this generation, including working in small groups, reducing intimidation, tracking health progress and increasing motivation.

“A whole new way to exercise, using team gamification”

Joseph Hill
07875 425 515
joe.hill.design@gmail.com
josephhilldesign.com
"73% of stroke survivors lack the confidence to see improvements in their recovery, whilst 63% live in fear of another stroke."

Pal-Assist will aid stroke recovery by integrating this product into a patients every day routine. The tablet encourages regular therapy, which allows patients to constantly grow and be in control of their recovery process whilst giving family members reassurance that their loved one is safe, using the carer’s cards provided.

Megan Howell
07889 053 973
megan3.howel@live.uwe.ac.uk
linkedin.com/in/meganmhowell
CrossFit aims to encourage children to do more physical activity. The project has been driven by the increase of obesity in children aged 8-12 year olds.

CrossFit is an engaging, fun and competitive experience with supervision from trained coaches.

“35% of schools are building classrooms on yards and playing fields.”

CrossFit aims to encourage children to do more physical activity. The project has been driven by the increase of obesity in children aged 8-12 year olds.

CrossFit is an engaging, fun and competitive experience with supervision from trained coaches.

Mabz Islam
07858 316 090
mahbub92@hotmail.co.uk
Melt

**WASTE PLASTIC, RECONSIDERED**

“Who knew this abundant waste material could have so many varied and creative possibilities?”

Melt is a kit that enables anyone to turn their waste plastic into personalised, hand-crafted objects.

HDPE is reformed using a domestic oven and then compressed into a series of moulds to create either vessels or solid blocks and tiles which can be used as a base material for many varied creative projects.

Josh James

07794 007 436
Joshua2.James@live.uwe.ac.uk
SubBud
SPECIES IDENTIFICATION SUBMARINE BUDDY

SubBud is a semi-autonomous submersible which accompanies you on your dive. During the dive, it carries out marine species identification and records your dive for personal use. This collection of species data over time can help establish the condition of the site.

“It enabled me to concentrate on the dive rather than filming which was a really neat feature.”

Ben King
07446 899 372
benking1293@gmail.com
“400 tons of tent related rubbish are thrown into landfill every year”

Reconstructing materials usually used for packaging and throwing away rubbish, Tempus is a sleeping shelter that challenges disposable living. Assemble, enjoy the festival, and then dispose. Recycle all cardboard, and use the over sheet as a big bin bag for the rest of your rubbish.

Do your part, camp with Tempus.

Thomas Knights

07885 511 024
tom.w.knights@gmail.com
tomknightsportfolio.wordpress.com
Safe Step
MAKING ENVIRONMENTS SAFER

Safe Step are intelligent slippers that use sensors to discretely help wearers safely navigate around their own home. We know our own homes like the back of hands, until friends and family come to visit, leaving doors partially open and toys over the floor.

“In the UK there are 360,000 blind and partially sighted people. This is set to rise to over 2 million by 2030”

Emily Measday
07789 007 063
emmy.m1994@gmail.com
TheraBuds is a service which aims to boost compliance in physiotherapy by gamifying the rehab course. This online service makes keeping in touch with a physio more convenient and makes following rehab programmes more intuitive.

“When my injury feels better, I might assume I’m done with the physio”

Benjamin Mitchell
07789 554 413
mitchell-97@hotmail.co.uk
Designing an alternative way of showcasing memories using a simple shape as a starting point.

The design has evolved into a display, allowing the user to showcase their memories. Care nurses and patients further challenged the traditional methods of showcasing sacred items.

“Allowing my memories to be celebrated is important to me, as it is all I have.”

Gavin Nash

gavinpnash@gmail.com

instagram.com/gavnashdesign
ELIMINATING DRUG ADMINISTRATION ERRORS

"Rethinking current means of dispensing medication to patients to provide a safe & accurate drug round procedure within hospitals"

Meeting nurses’ needs by facilitating a safer way to load, track and dispense medication to patients. The design offers systematic storage of both patient specific and stock items for use within the clinical environment. In addition, a highly intuitive user interface is offered from a Bluetooth low energy platform, resulting in an easier administration procedure and enhanced patient safety.

Robert Sampays
07532 223 322
robertsampaysdesign@outlook.com
linkedin.com/in/robert-sampays
The ACL Brace features a sensor and an electroactive polymer layer located within the Neoprene Sleeve to detect an unnatural position of the knee joint. An electric charge would be passed through the knee brace causing it to compress and add support to ligament if this occurs.

“6 Anterior Cruciate Ligament injuries have occurred during the first 8 games of the 2015/16 Premier League season”
Level Up

Physical Development through Play

“In 2013, 42 million children under the age of 5 were classed as overweight. This number will increase to 70 million by 2025.”

Level Up is a combination of modern technologies and traditional toys, which enhances the physical development of children aged three to five. It provides a fun and interactive way for children to get active and enhance their physical development skills.

Katherine Scott
07918 655 135
kat.scott88@gmail.com
Urban Tilapia
GROW FISH, EAT FISH

“Self-dependency and sustainability. This is the future of urban aquaculture”

Urban Tilapia is a mini-fish farm that is housed in a minimalist, Scandinavian coffee table.

The product allows a family of four to grow two meals worth of tilapia a month, for six months, whilst naturally becomes a centre piece in user’s homes and their living rooms.

Nik Spears
nikspearsdesign@gmail.com
linkedin.com/in/nikspears
“72% of all asthma deaths in the UK are women”

Prevo is an asthma kit designed to encourage young women to manage their asthma. The kit includes a preventer inhaler, peak flow device and an app to measure asthma control on a daily basis. The aim of the product is to encourage preventer inhaler use into daily routine.

Philip Surplice
07561 155 590
philip@surplice.com
Roots
NATURE’S FOUNDATIONS

Build Fires! Build Catapults! Build Trust! Build Responsibility! Time to break down barriers & use education as an engaging tool”

‘Roots’ provides a convenient, all-in-one experience for children over 6 years old, under adult supervision. It teaches both parents and children in a well-structured, guided and safe manner, resulting in a strengthening of family bonds and a decrease in avoidable child injuries.
Product Design Technology graduates use both technical and creative skills to turn their concepts into innovative products.

Our Product Design Technology degree combines Product Design and Product Engineering. The blend of creativity and practicality developed on this course gives graduates the rare and highly valued skills to create original and exciting concepts and to transform them into real, working, commercially viable products.

Product Design Technology projects all start with real world problems, understanding people and their needs. Innovative solutions are developed through concept sketching, making working prototypes, engineering analysis, CAD, design for manufacture and beyond.

Graduates of UWE Product Design are confident communicators and innovative designers, who are able to use their understanding of technology, sustainability, and materials to solve human-centred design problems. The breadth and depth of this course gives them the tools to succeed in industry or their own business venture.

Product Design Technology is accredited by the Institute of Engineering Designers.
Capsule has been designed with the intention of bringing confidence back to amputees who now rely on the use of a prosthesis to live a normal, active life. It aims to remove the stigma that some associate with prostheses while still appreciating the needs and emotions of the individual.

“The factors that increase amputation rates include being male, increasing age, and being a member of a racial or ethnic minority”

Capsule

NEW CONFIDENCE FOR LIFE

Alex Arbuthnot
07930004528
alexarbuthnot@hotmail.com
uk.linkedin.com/in/abdARButhnot
ARO the fruit holder is a new and innovative way to store your fruit on any walls. The aim of this project was to reduce the amount of food waste in domestic environment. ARO prolongs the shelf life of your fruit and yet offering limitless possibilities to store them.

“We always walk past the fruit bowl, but never really go and eat the fruit”

Matthew Au-Yeung
07961 259 640
aymanfung@hotmail.com
linkedin.com/in/MatthewAuYeung
Radia
ORTHOPOAEDIC CAST ALTERNATIVE

“...alternative to plaster of Paris and fibreglass casts, offering improved comfort, freedom and hygiene.”

Made from a flocked PVC shell and filled with sodium acetate, Radia is lightweight, breathable and waterproof.

The breathability comes from the open design allowing air to flow through the cast, which also allows the user to wash without fear of damaging the cast.

Josh Dean
07963 484 810
Joshdean28@live.co.uk
Rack I
RACK I IT IN STYLE

"Doing the laundry is the second most hated household chore, 42% of people do their ironing if they absolutely have to."

Rack I is the first ironing board and drying rack combined in one neatly designed product that you can be proud to have in your home. It will fit in great in any home and you no longer have to hide your ironing board and drying rack.

07528 376 173
Amirk71@gmail.com
Ankle injuries are the most common injury in sport, while many people injure their ankles just by going about their daily lives. Injuries are unexpected and even the fittest and strongest individuals are susceptible to injuries. IsoStrength aims to reduce these chances to the ankle while helping to protect and prevent the recurrence of similar injuries.
For the first time ever, any family with a car can own their own boat, reinventing the family holiday. Top Deck is an inflatable leisure boat big enough for a family of five, and is a fully functioning roof box that can carry the same amount of suitcases as a dedicated XXL roof box.

"Creating space, not taking it up!"
“Enlight is a combination of style, technology and art showcased on the canvas that is the cyclists back”

Enlight is an interactive piece of fashion art that provides a light show to the traffic behind. Each experience with a cyclist is unique and exciting, with the lightshow depending on the days continuously changing weather. Making the passing of a cyclist a unique enjoyable event.

Charley Millard

07905 155 518
charleymillard@hotmail.com
linkedin.com/in/charleymillard
Reducing the risk of injuries sustained by carers while pushing a manual wheelchair, by providing the pusher with an innovative adjustable handle which gives a high level of ergonomic comfort.

“In the last 6 months, I know of 3 carers that have reported having an injury from pushing a wheelchair”

Matt Northfield

07870 279 119
matt_northfield@hotmail.com
Forgetting to water your plants? Växa has it covered: fill up the tank and the drain feature controls the water flow using a ceramic tiles. The modular design of the planters allows for rearrangement into a number of configurations to fit into different areas of the home.

"växa was designed for modern urban living; an adaptable vertical garden to bring the outdoors to interior spaces"

Luke Richardson

07769 288 496
lukerichardson1511@gmail.com
linkedin.com/in/richardsonluke
Brew box is a fully enclosed, semi-modular brewing system where everything you need to brew can be purchased or researched at one place. The Brew box website is aimed at saving time and the hassle by eliminating the sourcing of various parts and ingredients from different suppliers.

“I found researching all the different equipment and recipes too baffling”

Carlo Scrocca

07872 515 269
carlo.scrocca@googlemail.com
SmartBot are working alongside educators and experts from the Bristol Robotics Lab to deliver an educational robotics platform that teaches computational thinking. The sandwich sized micro controller platform allows children to use plug and play hardware to create different robotic platforms. Due to launch on Kickstarter later this year.

Daniel Stuart-Cross

dan@mindsketch.co.uk
mindsketch.co.uk
Pure Golf

LEARNING GOLF CAN BE FUN

Pure Golf aims to introduce more people to golf, creating a greater first experience and helping with the transition into golf.

Pure Golf is designed to introduce golf into physical education in schools. Games have been designed to be energetic and engaging while teaching the fundamentals to improve skills.

“Golf can be near impossible when starting out; Pure Golf teaches core fundamentals to quickly improve your game”

Jordon Trent

07795 095 314
Jordan@ctrent.co.uk
This project is an experimental design project on generative design to find its uses and benefits within product design.

This lead me to produce my business LKJ Design, 9 versatile definitions able to create infinite designs, and 3 products which demonstrate this: A lamp, mouse, and a pair of shoes.

Joseph Williams

Jb.williams@hotmail.co.uk
linkedin.com/in/josephwilliamsdesign
Tilt Desk
KINETIC FURNITURE FOR HIGHER EDUCATION

Sit & listen
Stand & discuss

“Students learn best when interacting with each other but current classroom furniture is too static”

Tilt was designed to stimulate more collaborative learning during lectures at universities which are normally very didactic. It encourages students to stand for collaborative teaching and sit during traditional lecturing, therefore breaking up the lecture, changing its momentum and allowing students to refocus their concentration on learning.

Kimberly Wong
07754 850 284
kimberly.wong294@gmail.com
kimberlywongdesign.co.uk
For three solid weeks this January, the whole of the final year immersed themselves in the Studio 3 Live Project. In keeping with the product design courses’ tradition of high quality external live projects, the project this year was run in conjunction with Zodiac Seats UK Ltd (ZSUK) – a division of Zodiac Aerospace.

The trade journal Aircraft Interiors International takes up the story: “The brief given to the students was to ‘design a first class aircraft living environment that meets the varied needs of current and future high end air travellers’. The full brief was designed to provide a level of freedom that would allow genuinely new ideas, but also ensure an undertone of realism to steer the students towards a concept that may actually be possible to realize. To ensure that all creative and technical aspects were considered, all teams had a mixture of both creative product and product design technology students.”
This was a challenging brief with tight physical constraints as well as a long list of passenger and client needs to be met. Full scale sections of a Boeing 777 passenger cabin were built in the studio to enable to students to fully appreciate the environment they were designing for.

Three weeks later all the groups presented their projects to ZSUK back at their Cwmbran headquarters.
The students would like to say a big thank you to all the staff at UWE for all their help and support throughout our time at university. We’re grateful for having had the opportunity to participate in some fantastic live projects with external companies such as Omlet and Zodiac Aerospace.

Luke Haslam-Jones - Programme Leader Creative Product Design
Luke.Haslam-Jones@uwe.ac.uk

Phil Bommer - Programme Leader Product Design Technology
Phil.Bommer@uwe.ac.uk

Lecturers
Doug Barber
Drew Batchelor
Tod Burton
Dr Andrew Cook
Andy Gray
Dr John Harding
Sophie Hills
Dr Ruth Jones
Richard Mawle

Technical and Graphic Support
Martin Campbell
John Griffiths
Chris Hart
Jamie Randall
Geoff Simms
Patrick Thornhill

Associate Lecturers
Duncan Iraci
Mike Kinrade
Zan Nadeem
John Piper