

Product Design

at the

UNIVERSITY OF THE
WEST OF ENGLAND

Graduate Show

2016



PRODUCT DESIGN
YEAR OF 2016

Welcome

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.





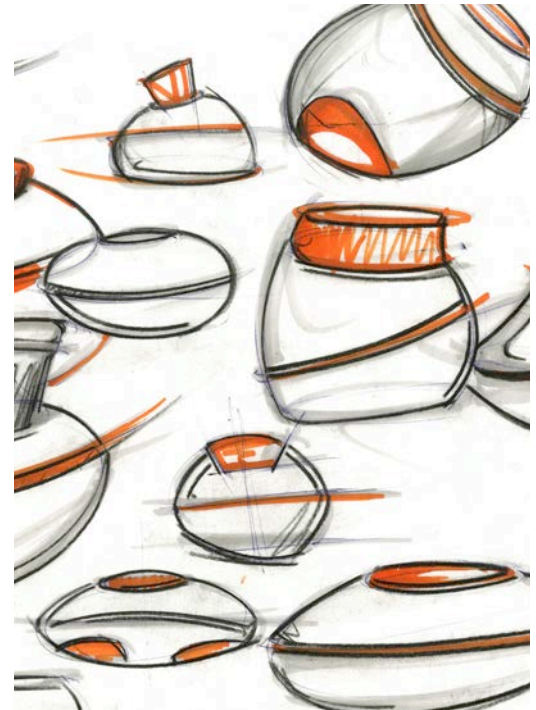
BSC(HONS) Creative Product Design

Creative Product Design graduates are highly skilled creative problem solvers with an empathetic understanding of people.

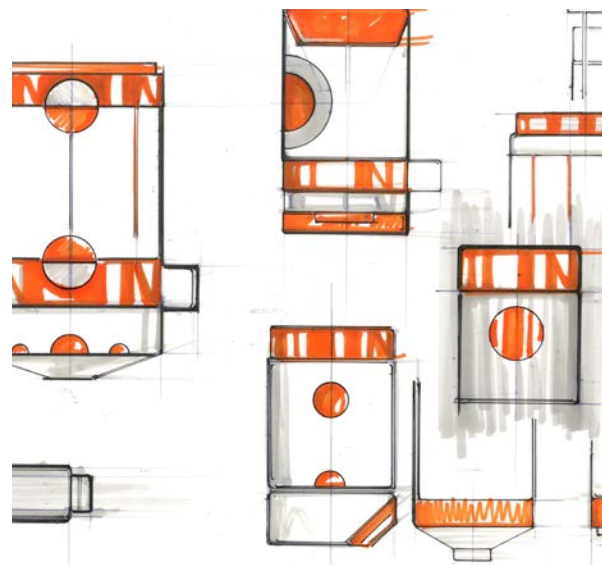
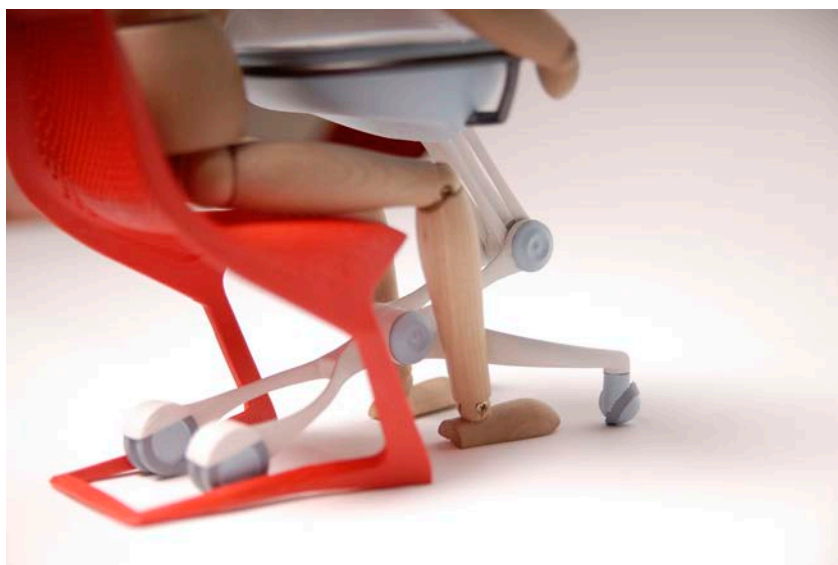
The course instils graduates with the confidence and ability to take risks, challenge conventional thinking and design products, services and user experiences which surprise and delight.

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.







Source

IMPROVED HYDRATION IN SCHOOL

“Shares core values with the Victorian health initiatives that massively improved access to free public water”

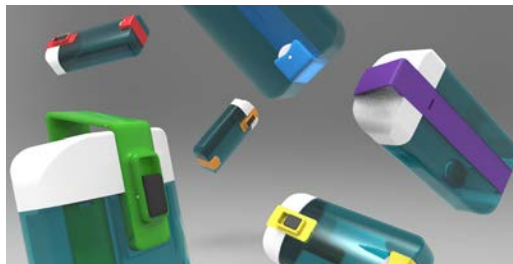
Introducing Source, an initiative devoted to improving the hydration of teenagers by improving access to free tap water in secondary schools.

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



Jonny Arditti

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Titan

HEAVY DUTY PHONE MOUNT



"I've broken three phones in the past year whilst Mountain biking!"

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.



Jordan Batts

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Roam

CYCLE AND EXPLORE WITH FRIENDS

"The must have
accessory that
will get you out
on your bike
for a different,
exciting
adventure every
time"

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.



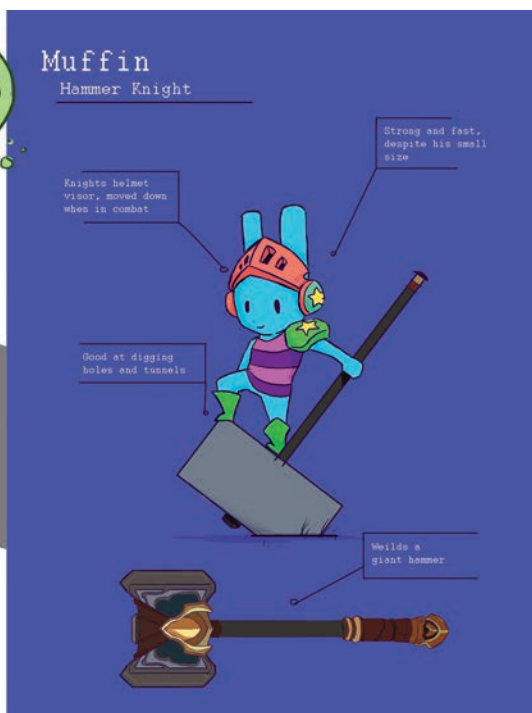
Matthew Berry

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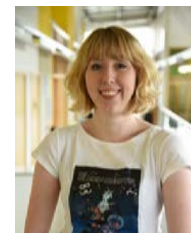
The Sleep Agents

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

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Spine

TRACKING TRUE POSTURE

“People often
aren’t aware
of their poor
posture. Spine
increases
awareness and
helps to correct
it”

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.



Lu Chen

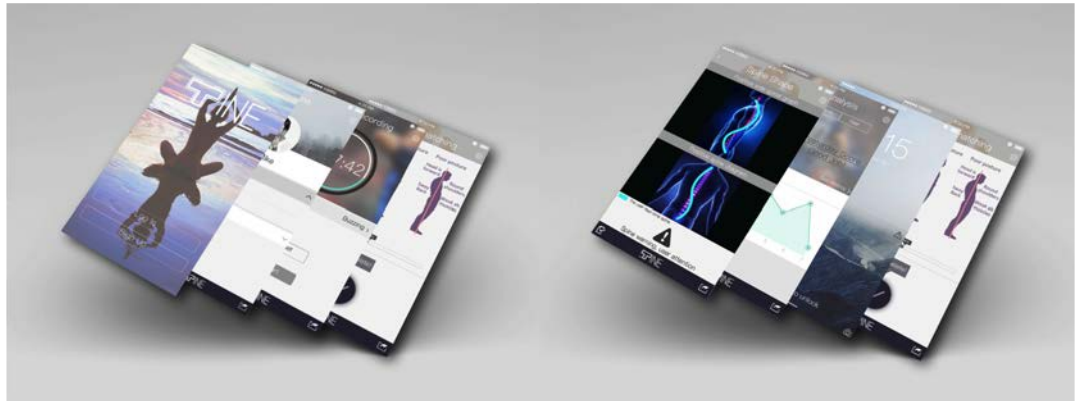
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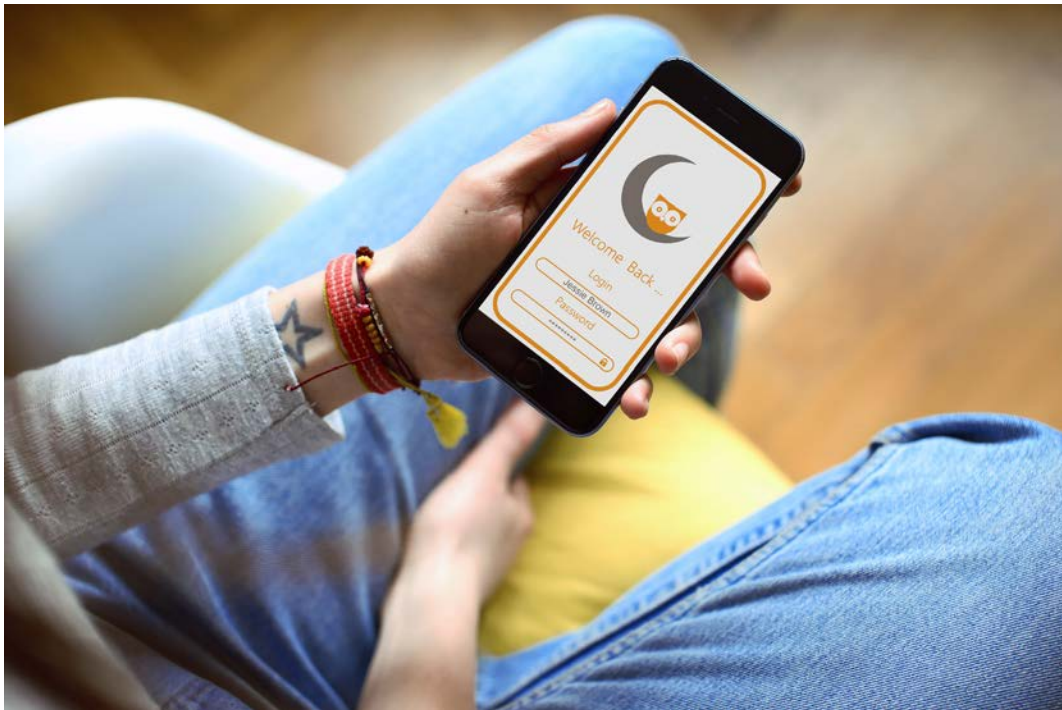
BRING YOU
A
HEALTHY
AND
SMART

SPINE



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

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“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

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(GRAIN)

ECO, FLAT-PACK PANEL SYSTEM



Totem Takeover

THE GAMIFICATION OF NATURE

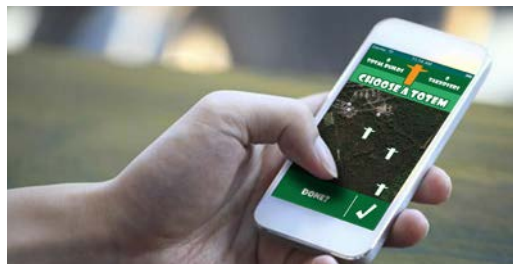


"Claim nature in this exciting new game that uses technology as the driving force behind getting kids back outdoors"

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.



Robert Fossett

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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

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Bambed

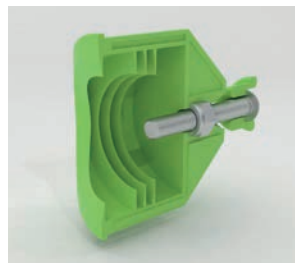
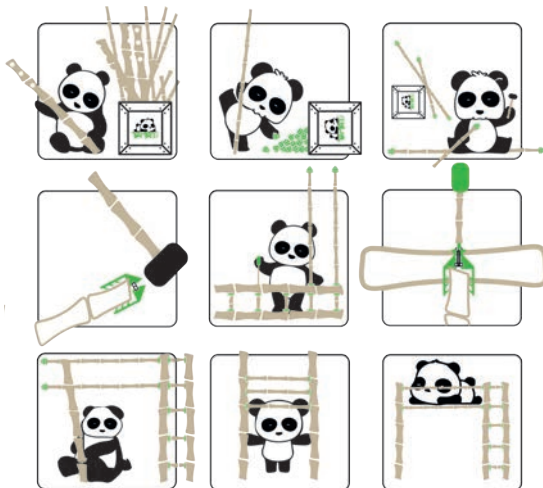
SUSTAINABLE BY NATURE



"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.'



Harry Fricker

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“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

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Stance

COMFORTABLE EWE, PAIN-FREE YOU



Pulse Pods

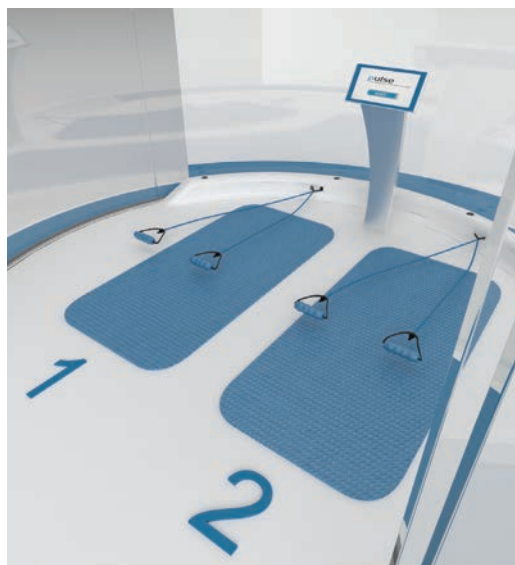
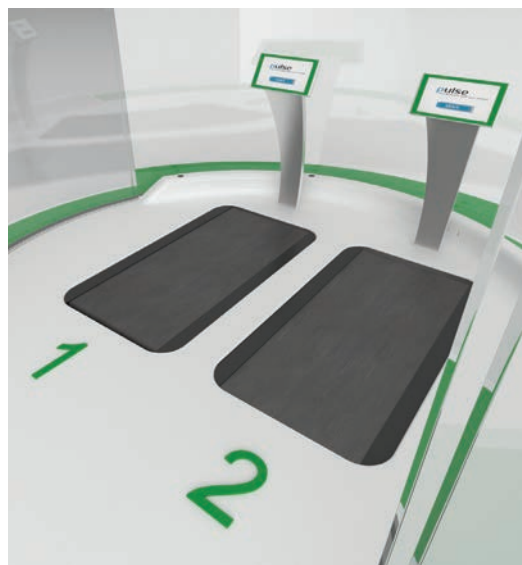
FUN WORKOUTS WITH YOUR FRIENDS



"A whole new way to exercise, using team gamification"

With it's 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.



Joseph Hill

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Pal-Assist

SUPPORT, GROW, RECOVER

“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.

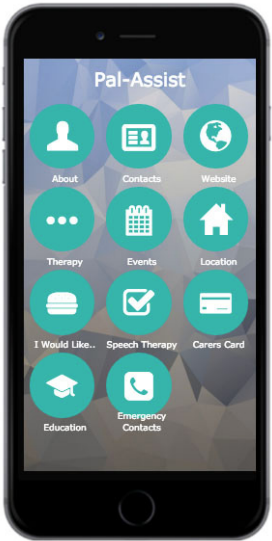


Megan Howell

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Cross Fit

ENCOURAGING PHYSICAL ACTIVITY



**"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

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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

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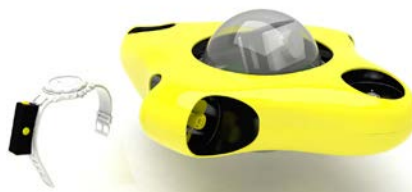
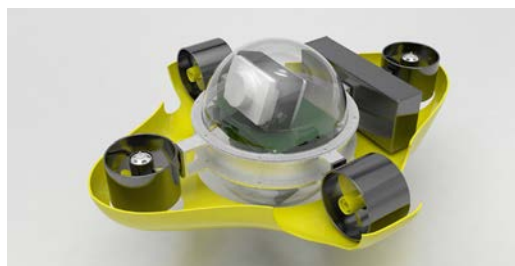
SubBud

SPECIES IDENTIFICATION SUBMARINE BUDDY



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

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.



Ben King

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Tempus

THE TEMPORARY TENT

“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.

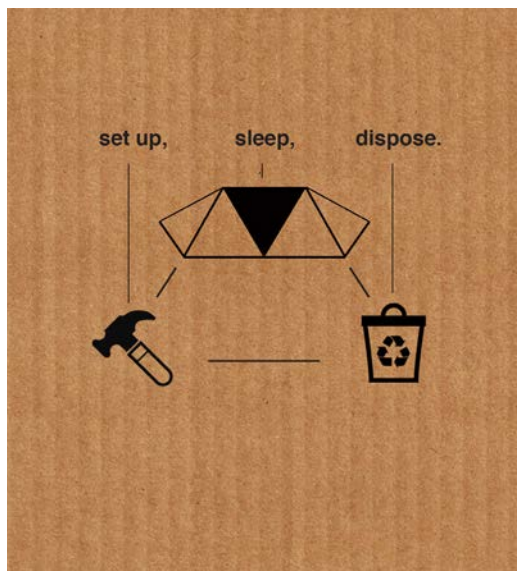


Thomas Knights

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Safe Step

MAKING ENVIRONMENTS SAFER



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

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.



Emily Measday

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

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.









Benjamin Mitchell

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TheraBuds

GET FITTER, THE FUN WAY




3 weeks

BudFeed




Tim

Week 21/3 - 24/3



Bro

Week 13/4 - 14/4




James

Week 6/4 - 7/4

Good sesh last week! Not around for a while. Wanna do 13th or 14th next month?

Feeling pumped? Say something!

NEXT UP




7 days

TIER 2 - RESTING AND REHAB

Congratulations!

You've started your second batch of exercises for Resting and Rehab. Keep it up!



Ribbon Achieved!


COMPLETE!

TIER 1 - RESTING AND REHAB


Well done!

Coaching

Suggested exercises




Try a 30 min walk to loosen up a bit.




Daily physio stretches.


Diet




Try our weekly plan here!




Short strolls







Walking to the shop



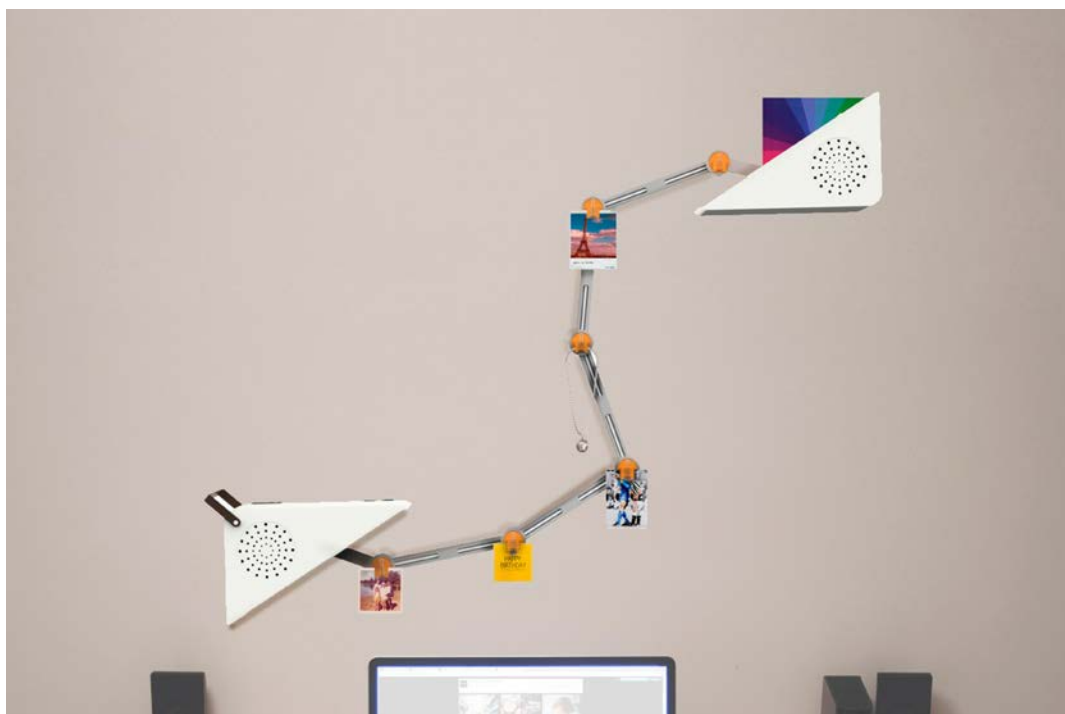
Walking the dog

3 weeks



Archive

YOUR MEMORIES, CELEBRATED



"Allowing my memories to be celebrated is important to me, as it is all I have"

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.



Gavin Nash

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dawn

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.

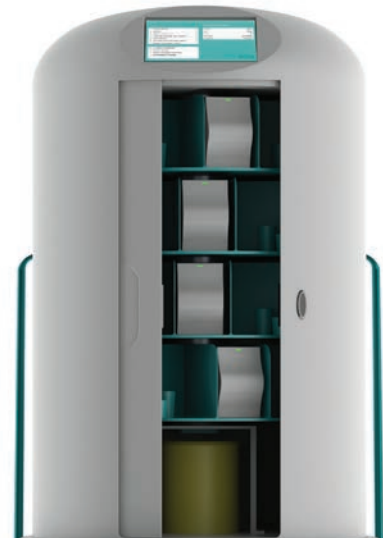
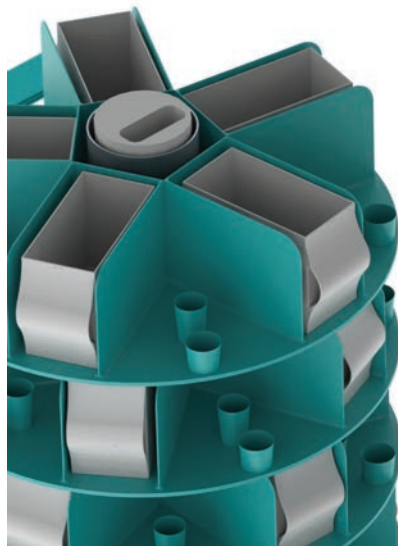


Robert Sampays

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ACL Brace

INJURY PREVENTING KNEE BRACE



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

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.



Moe Sarwar

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Level Up

PHYSICAL DEVELOPMENT THROUGH PLAY

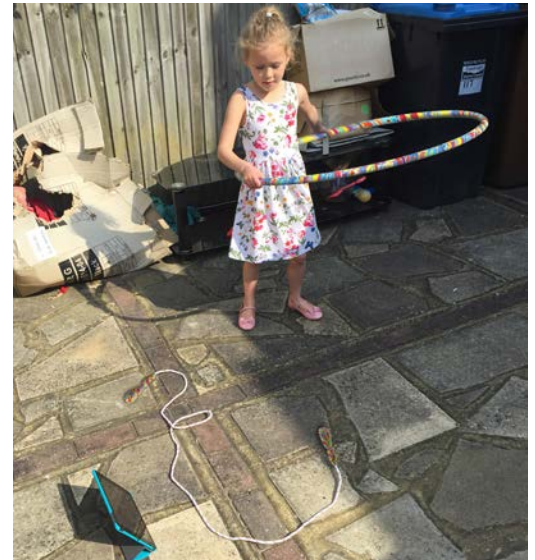
"In 2013, 42 million children under the age of 5 were classed as overweight. This number will increase to 70 million by 2025"

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

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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 minimalistic, 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

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“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

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Prevo

CONTROL YOUR ASTHMA



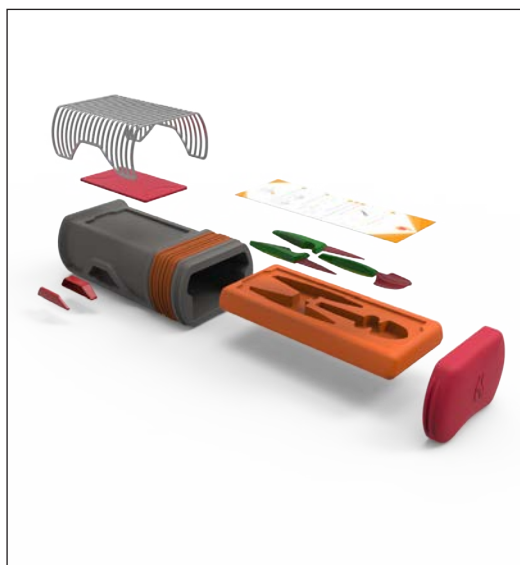
Roots

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.



Lewys Webber

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BSC(HONS) Product Design Technology

Product Design Technology graduates use both technical and creative skills to turn their concepts into innovative products.

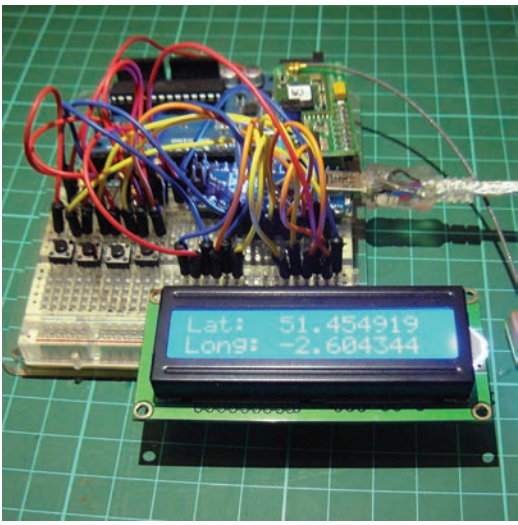
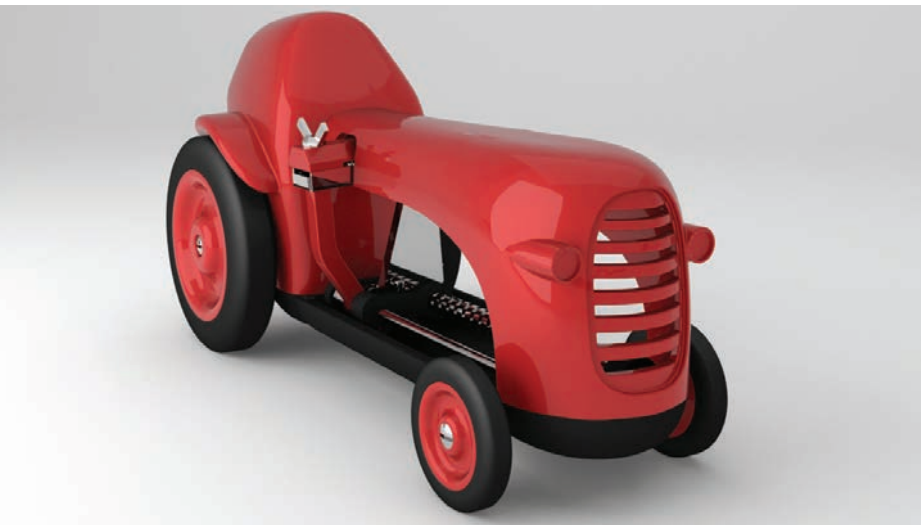
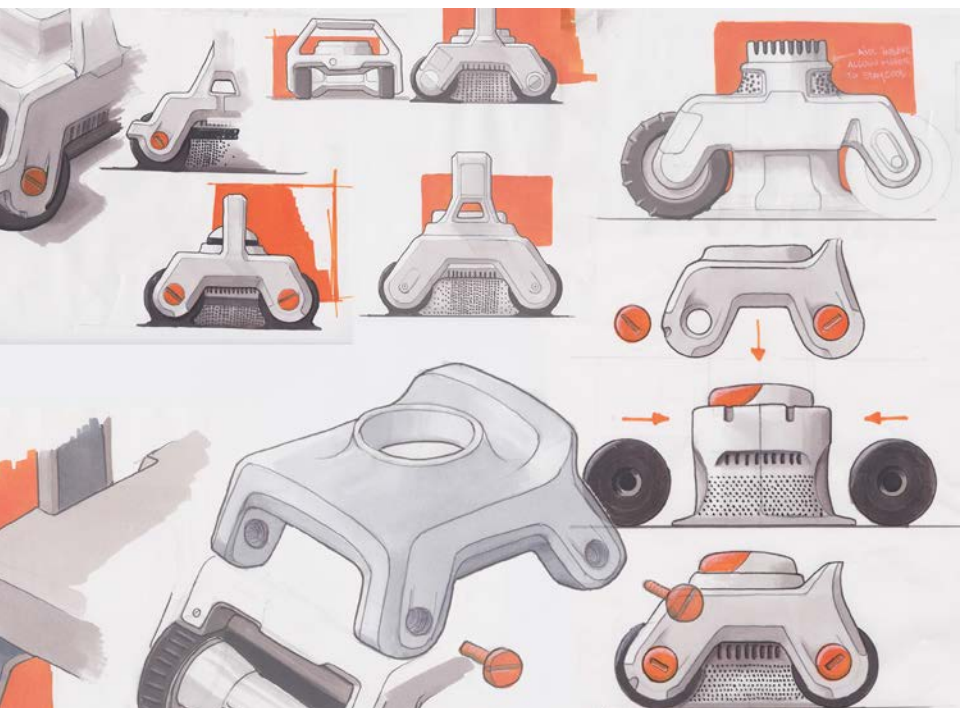
Our Product Design Technology degree combines Product Design and Product Engineering. The blend of creativity and practicality developed on this course gives graduates the rare and highly valued skills to create original and exciting concepts and to transform them into real, working, commercially viable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

NEW CONFIDENCE FOR LIFE

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

Capsule has been designed with the intension 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.



Alex Arbuthnot

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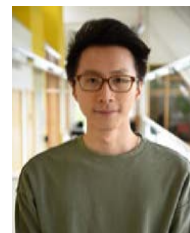
Aro

ANY FRUIT. ANYWHERE.



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

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.



Matthew Au-Yeung

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 MatthewAuyeung

Radia

ORTHOPAEDIC CAST ALTERNATIVE

“The affordable
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



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.



Amir Karami

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IsoStrength

ANKLE INJURY REHABILITATION

"The best form of injury prevention is keeping parts of the body fit and strong through repetitive strengthening exercises"

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.



Hayden Kinnersmith

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Top Deck

REDESIGNING THE FAMILY BOAT



Top Deck is the same size and capacity as existing roof boxes with a capacity of 500 litres...

... and it's a boat.



TD
TOP DECK

"Creating
space,
not taking
it up!"

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.



Josh Leddra

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Enlight

A GIFT TO DRIVERS

“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

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Cura Wheelchair

FOR THE CARER



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

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.



Matt Northfield

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växa

MODULAR VERTICAL GARDEN

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

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.



Luke Richardson

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Brew box

HOME BREWING MADE SIMPLE



"I found researching all the different equipment and recipes too baffling"

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.



Carlo Scrocca

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SmartBot

LEARNING CODE, THROUGH PLAY

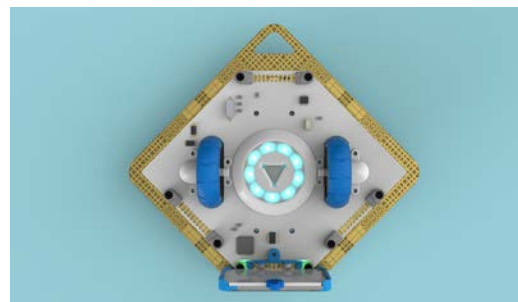
“SmartBot is a sandwich sized micro controller platform that allows children to use plug and play hardware to create different robotics”

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

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Pure Golf

LEARNING GOLF CAN BE FUN



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

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.



Jordon Trent

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Generative Product Design

NOT DRAWN. NOT DESIGNED. GROWN.

“Nature is our
best designer.
Generative
design mimics
nature’s
approach to
design”

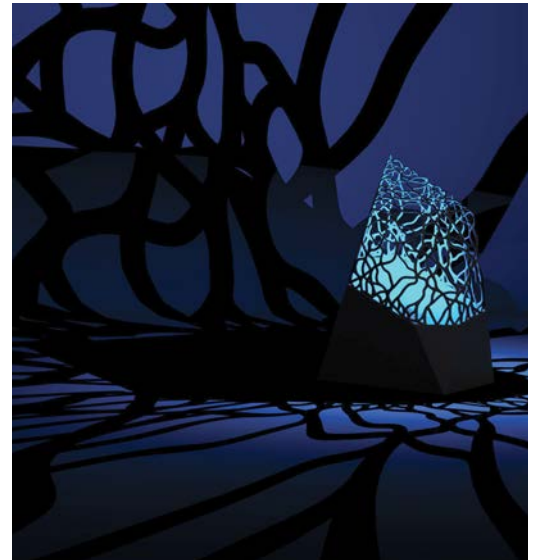
This project is an experimental design project on generative design to find it’s uses and benefits within product design.

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

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Tilt Desk

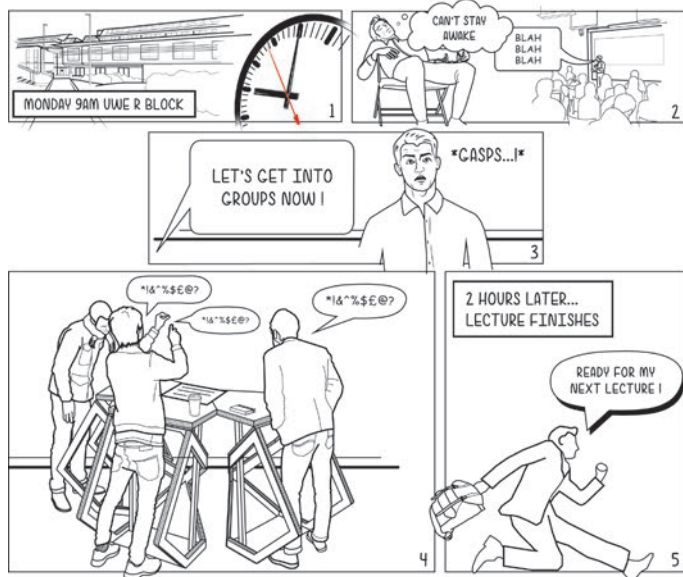
KINETIC FURNITURE FOR HIGHER EDUCATION



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.



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Live Project - Zodiac

ZODIAC SEATS UK - STUDIO LIVE PROJECT

January 2016

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.

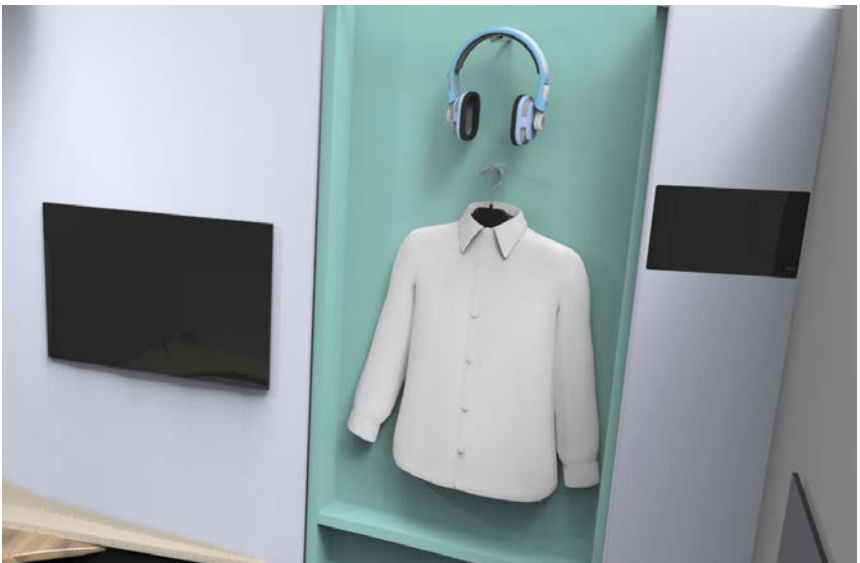
The trade journal Aircraft Interiors International takes up the story: “The brief given to the students was to ‘design a first class aircraft living environment that meets the varied needs of current and future high end air travellers’. The full brief was designed to provide a level of freedom that would 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.”

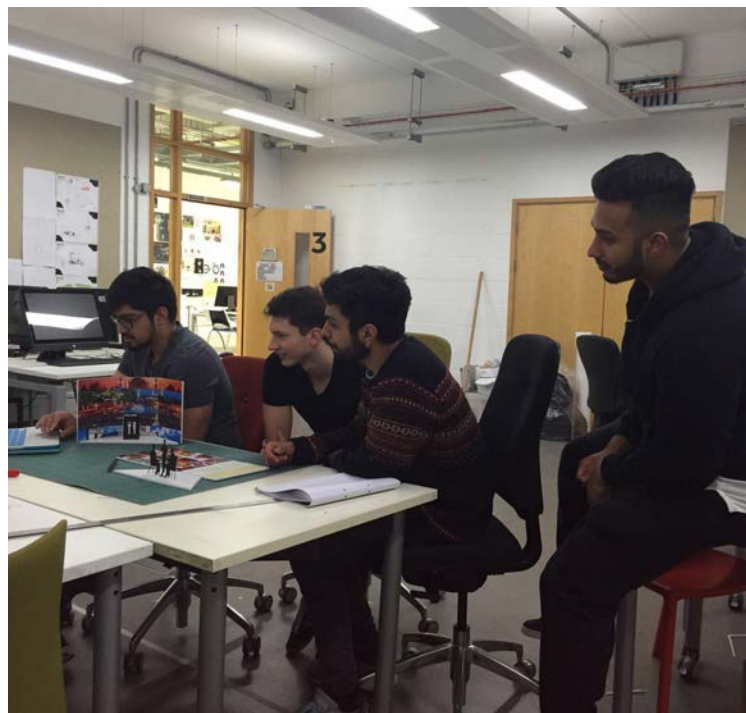
This was a challenging brief with tight physical constraints as well as a long list of passenger and client needs to be met. Full scale sections of a Boeing 777 passenger cabin were built in the studio to enable to students to fully appreciate the environment they were designing for.

Three weeks later all the groups presented their projects to ZSUK back at their Cwmbran headquarters.

**ZODIAC
AEROSPACE**







With Thanks

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.

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