Michael Beaman
BSc (Hons)
Design Engineering

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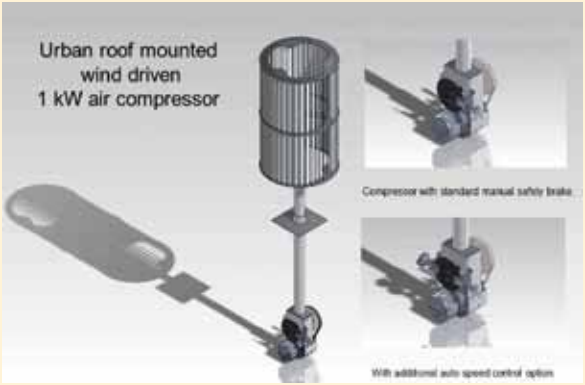
Secure Surfboard Carry Case

The SSC case is designed to provide full, affordable protection for a surfboard against theft or damage. In addition to protecting up to four surfboards, it provides a safe, keyless-lockable space for storing modern day fob-style car keys while surfing in the water.

Having trained as an electric design engineer for a utility company, obtaining a degree in Design Engineering at BU was an excellent way forward.



Ian Chapple
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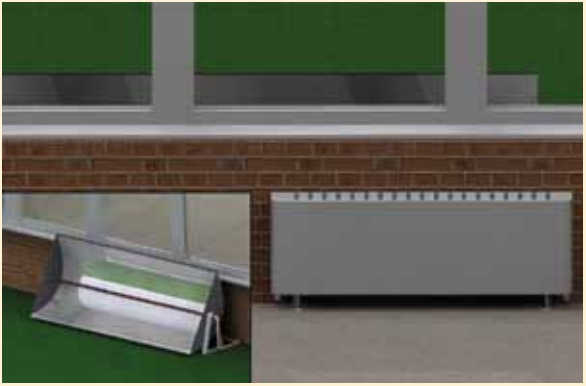
Energy Recovery and Storage from the Environment by Pneumatic Means

This project has allowed me to develop an understanding of the requirements and benefits involved with a novel process in green energy recovery. It has also allowed me to explore advanced technical solutions to some of the considered future problems in environmentally recovered energy.

Studying at BU has given me the opportunity to pursue my love of lifelong learning, acquiring skills and continuing professional development in an enthusiastic, formal setting.



Jason Collier
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Conservatory Natural Heating Solution

Conservatories suffer from dramatic heat loss during the evening hours, meaning costly electric heaters are generally used. The Conservatory Natural Heating Solution uses stored heat energy gained through solar thermal energy, generating cost – and emission – free heating for the evening hours.

My course at Bournemouth University, along with a year's industrial placement at Mercedes-Benz, has allowed me to continuously develop my engineering skills and encouraged my interest in the renewable energy sector of engineering as a career choice.

William Darvill
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Design Engineering

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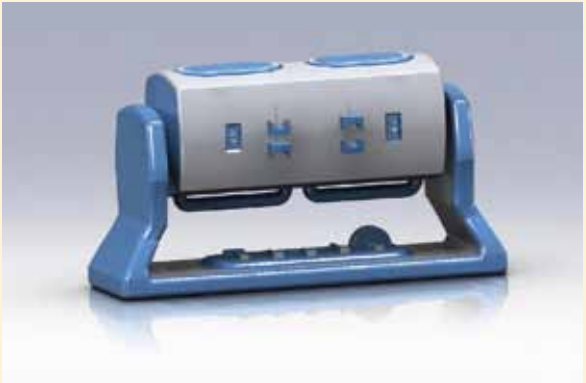
CO Smoke Escape Device

The CO Smoke Escape Device is a powered escape device that conforms to BS EN 404: 2005, protecting the wearer from carbon monoxide and poisonous gasses for up to 60 minutes. The product utilises a unique catalyst, powered by a custom CFD designed radial impeller and volute casing that provide elevated levels of protection.

My time at Bournemouth University and my placement at Avon Protection Systems have both given me a wealth of knowledge and skills that I look forward to developing in the future.



William Fiebig
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Design Engineering

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Hand Physiotherapy Device

The Hand Physiotherapy Device project incorporates all the essential equipment to aid recovery from a severe hand injury. It is a compact and portable device that will help prevent long-term disability. The device has a feature that monitors the patient's progression, optimising the chances of a successful recovery.

BU has given me the chance to express and grow my creativity in the field of Design Engineering, thanks to thorough teaching of both design and engineering principles. My time with BU has been extremely fulfilling and enjoyable.

Graeme Furley
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Design Engineering

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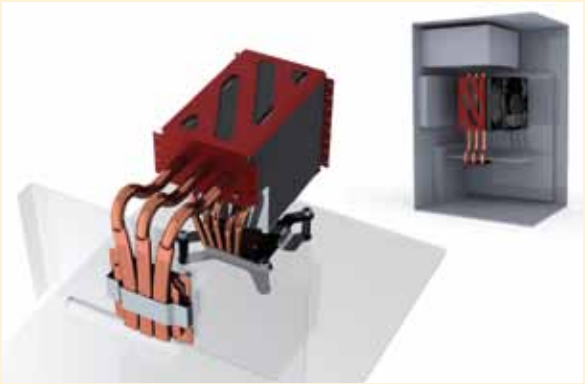
Centrifugal Pump Front Cover

Working with sponsor company Godwin Pumps, this design features an optimised anti pre-rotation vane and a non-carry-over system that is suitable for both ejector and vacuum pump priming systems. It is smaller, lighter and cheaper to produce than current designs, and only requires minor modifications to make it suitable for any pump size.

I have enjoyed the time spent at BU. I have developed a thorough background in engineering and gained valuable experience on placement at ITT Godwin Pumps.



Lee Jenkins
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Design Engineering

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Quiet Desktop PC Cooling Solution

The cooling solution has been designed to deal with the waste heat produced by the main internal components inside the PC while reducing the audible fan noise. Able to be retrofitted inside any standard desktop PC, it offers a low-cost alternative to water cooling while using a reliable and non-mechanical heat transfer technology.

Studying Design Engineering at Bournemouth University has developed my skills covering wide aspects of the design process which I hope to transfer to my future career.

Varun Kapoor
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Design Engineering

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Heat Harvester

We live in an infinitely rich and beautiful world where climate change threatens our future. Good design is essential to our survival and my time at BU has made me look into myself and the world around to question and understand what good design is. Good design is simple. Simple does not imply easy.

My placement at Reva Electric Car Company (G-Wiz in the UK), showed me the complexities and intricacies associated with “green” design and design in general. For that, I am grateful.

Philip Kwofie
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Design Engineering

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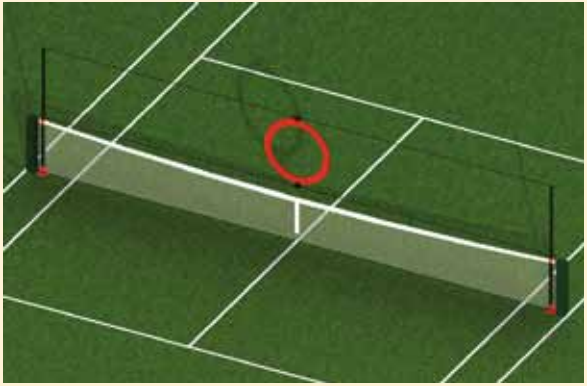
Educational Remote Control HeliCar

The Educational Remote Control Heli Car is a project developed to help educate students between 11 and 19 years old studying engineering, design and technology as well as education practitioners, with the aid and provisions of teaching and learning resources. The Heli Car is also a purchasable product for recreational purposes. It has unique features such as flight and it can also be used as a remote control vehicle.

As a graduate License Aircraft Maintenance Engineer with KLM, after a change of career as a Senior D&T CAD/CAM Instructor with Harris Academy, my institute gave me CPD sponsorship and the opportunity to study Top-up Design Engineering at Bournemouth University.



Thomas Manley
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Design Engineering

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Tennis Training Aid

Playing or practicing tennis necessitates an opponent; without one, it is very difficult to practice. This product, paired with a tennis ball delivery system encourages individual play by 'mimicking' an opponent. Incorporating a motorised target running along the line of the net with adaptable telescopic poles, the user is able to adjust the height of the target and practice a variety of tennis strokes.

My time at Bournemouth University has helped me to develop my abilities and knowledge within the field of engineering.

Arjun Mathews
BSc (Hons)
Design Engineering

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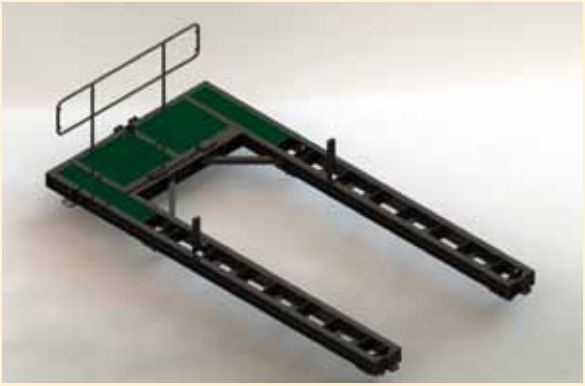
Smart Riser Aid

The Smart Riser Aid is a mechanical aid which incorporates a Sit-to-Stand device in a mobility frame, allowing users to rise from a seat with no problems. This aid allows users to overcome weaknesses in stability and movement and allows for individuality, a key aspect for day-to-day life.

My time at Bournemouth University has not only allowed me to further develop my design skills, but has inspired me and re-enforced my interest in design and advanced technologies.



Martyn Pitman
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Design Engineering

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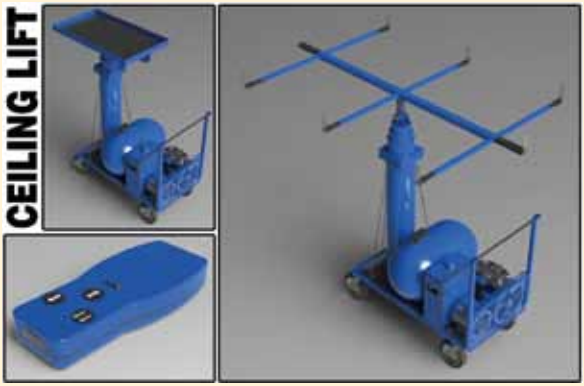
Atlantic 85 Slipway Launch & Recovery System (Baltimore Lifeboat Station)

This new launch and recovery system will allow the RNLI to re-utilise existing slipway lifeboat stations for use with the new Atlantic 85 inshore lifeboat. This will help to reduce the reconstruction time of existing buildings and overall conversion costs and allow for standard equipment to be used at multiple lifeboat stations.

Studying at Bournemouth University has given me the chance to develop my skills, which will aid in my future career.



Robert Salmon
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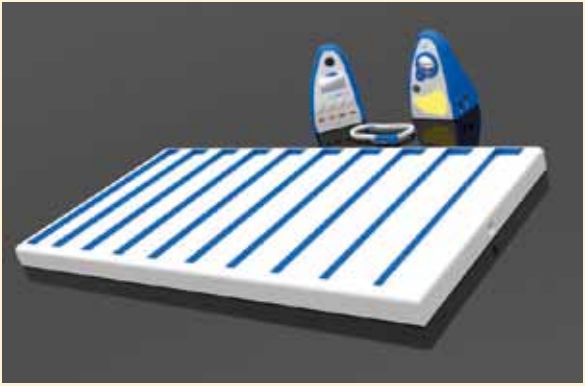
Ceiling Lift

My final year project is a pneumatically powered ceiling lift for the building industry. This aids the operator in lifting building materials to their installation height, using a remote control to make it easier to operate from a distance or up a ladder.

Design Engineering at Bournemouth University has added to my previous engineering experience learned in my apprenticeship, ONC and HNC in Mechanical Engineering by reinforcing my engineering background and increasing and broadening my knowledge.



Ryan Sanders
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Design Engineering

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BabySafe Night Monitor

The BabySafe Night Monitor is designed to monitor the heart rate, body temperature and respiratory rate of an infant whilst he/she is sleeping. The aim of the device is to alert parents if an unsafe reading has been taken.

Studying at BU has provided me with a solid foundation and opened my eyes to the world of design. After a lot of hard work, this course has helped me grow as an individual, developing my technical skills and knowledge required in industry and has re-enforced my passion for engineering.

James Smith
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Design Engineering

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Domestic Recycling Compactor Unit

My final year project's purpose is to make domestic recycling easier and reduce the size of recycling, as well as increasing the efficiency and awareness of domestic recycling. This makes for a more sustainable way of living and allows us to play a part in reducing our own carbon footprint. The unit will consist of multiple compartments and include a compacting mechanism to reduce the size of certain materials.

Bournemouth University has given me the opportunity to express my creativity and educate me further in my desired field of work.

Daniel Stamp
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Design Engineering

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Oscillating Wing Wind Power Generator

The Oscillating Wing Wind Power Generator uses a large wing to create a plunge displacement, fluctuating in an oscillating motion. A dynamic system is employed to optimise its performance given real time weather conditions, where the frequency of oscillation is manipulated allowing beneficial efficiency by creating a stable flutter.

Both my time at BU and my placement with Airbus has allowed me to develop a large range of professional and technical skills, which I've applied to my final year project.

Andrew Thornton
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Design Engineering

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Automatic Bicycle Gear Selector

The Automatic Bicycle Gear Selector uses strain gauges to assess the forces being applied by the rider and changes gear to ensure the force is not too great. Using programmable logic, the system can also be used for training and rehabilitation.

Design Engineering has given me the engineering skills necessary to apply my natural design abilities to real world applications. The year spent in industry allowed me to apply these skills in a working environment and further develop my professional skill set.

Peter Tremetsberger
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Design Engineering

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The Easy Launch Boat Trailer

The Easy Launch Boat Trailer is designed to assist in the launching of small boats from slipways. The design is based on telescopic features that allow the trailer to extend backwards towards the water, thus eliminating the problems associated with reversing the towing vehicle into the water.

The Design Engineering course, along with my placement at GBH-Ramps, has given me the chance to further develop my engineering skills and enabled me to discover the importance of the design stage in a project.

Daniel Trowse
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Design Engineering

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Assisted Shopping Cart

The Assisted Shopping Cart is designed to aid the elderly and disabled with their everyday shopping needs. It removes the need for them to push their shopping, allowing travelling for longer with ease.

During my time at Bournemouth University I have learned a variety of skills in both design and engineering and have been able to create and verify designs in an efficient manner. In doing this, my passion to learn more and to progress has grown.