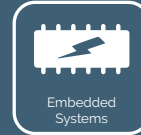
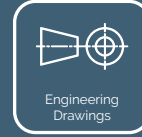


### KEY SOFTWARE



### SKILLS



### AWARDS



NATIONAL  
RUNNER UP  
WITH  
SUNUP

## EMPLOYMENT/EDUCATION HISTORY

### DATES



### LACOSTE 3D CAD DESIGNER

2019 - PRESENT

Working within the 3D CAD team to build, design and model Lacoste footwear. Both for visualisation and prototyping purposes. Most of the modelling is done within Rhino, inducing rebuilding artec eva 3D scan data and reverse engineering the models from 3D scans within Rhino. Rendering completed with Keyshot 8/9 to create photo-realistic images of the shoes in order to cut down on the amount of required samples and the cost and time associated with that.



### BRUNEL UNIVERSITY. 1ST CLASS HONOURS PRODUCT DESIGN ENGINEERING (BSc) *with Professional Practice*

2015-19

Trained in CAD/CAM software - SolidWorks, Keyshot, Rhino, Adams, Ansys, Geomagic 3d, Siemens Human Jack Simulation Software, KiCad PCB design.

Proficient in Adobe Design software such as Illustrator, InDesign, Photoshop.

Workshop practices such as Basic Carpentry skills, Metal Fabrication, Plastic manufacturing. Trained on Metal and wood lathes as well as Bridgeport metal mills.

Design for manufacture; Designing whilst factoring in final manufacture.

Embedded Systems having been trained with Arduino, C coding on PIC microcontrollers as well as the use of Python and Raspberry pi's, KiCAD PCB design.

Further Mathematics, Mechanics and Electronics with special focus on embedded systems and solar based electronic configurations.

Design Process with four major projects for The North Face, Canon, Bosch, Xicato amongst others.

Modules in Advanced Graphic communication and presentation using Adobe creative suite.

Taught Dynamics, Mechanics and stress analysis and applying these to design.

Trained in Computational Fluid Dynamics theory and other simulation software.



## **SOLAR TECHNOLOGY INT. LEAD DESIGN INTERN**

2017-18

Lead Product Design & Development Engineer for a year long placement at Solar Technology International based in Gloucestershire, Project Managing over 20 projects in the year, helping to develop their new range of hiking and camping products for the Freelander and Solarmate Brand amongst others. Liaising with manufacturers in China regularly. And undergoing research with Dr Paul Riley, Nottingham University, in development of specialist projects.

Skills: Specialist training in solar based electrical engineering and lithium battery systems. Further training in aspects of business and sales relating to the project development stage.

CAD modelling and visualization renders for clients over a wide variety of briefs. As well as final engineering drawings using SolidWorks for final manufacturing.

## **KEY PROJECTS**



### **THE NORTH FACE SUN-UP SOLAR BACKPACK**

For my final year major project, I approached VFC (The North Face's Parent Company) with a pitch for a research project unlike those they were already pursuing within the university. The project was the development of an articulating photovoltaic array for generating power whilst backpacking. It removed the current main points of failure by replacing soldered wire connections with a mechanical interlocking conductive joint that connects. For more information about the project feel free to request a copy of my final dissertation.

The year provided a unique opportunity to become familiar with a standard industry workflow due to the nature of the collaborative project. Designs were proposed and discussed all throughout the development process. The project is ongoing and going to be developed further in future.

Skills: A more Industry based workflow and timeline understanding, CAD design, development, simulation and testing as well as utilising workshops for prototyping and final construction.

Awards/Notable Coverage: SunUp was the 2019 national runner up in the James Dyson Award, one of 3 selected for an award from the whole country. This gained articles in Dezeen.com as well as several other publications.



### **BACKPACK DESIGN**

Having an interest in both design and hiking it is only natural to have begun designing gear for hiking and camping. I have designed and built various outdoor products in my spare time such as a 70L backpack with a unique vertical zip design, Which I have used for roughly 500 miles and counting. This pack I use for prototyping various design ideas.

## **CONTACT DETAILS**



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