



## SOFTWARE



## AWARDS



## KEY SKILLS

Keyshot, Rhino, SolidWorks, Clo3D, Marvelous Designer, Fusion 360, Blender & Grasshopper Algorithmic Modelling.

Adobe Creative Suite including; Illustrator, Indesign, Photoshop, Substance Painter.

Full Computer Literacy & Microsoft Office Suite.

FDM & CBJ 3D Printing machine operation & maintainance

Trained in MIG welding, metal mill's, sewing machines & all standard workshop machinery.

Experience with PIC's, Arduino, Raspberry Pi, Python Coding, C Programming.

## EMPLOYMENT HISTORY



### LACOSTE PCL.

3D DESIGN ENGINEER 1  
2019-PRESENT

Working within the 3D CAD team to build, design and model Lacoste footwear. Both for visualisation and prototyping purposes.

Outsole Tooling modelled in Solidworks with **Rhino Grasshopper** being used for more organic grip patterns which required algorithmic modelling. Create BP's for the factory and making ammendments utilising inhouse CBJ 3D printer to help visualise the design further.

**3D scanning** using Artec Eva, Scans used for reverse engineering the models within Rhino.

**Keyshot** used to create photorealistic images of the shoes in order to cut down on the number of required samples and the cost and time associated with that.

Animations completed using **Blender, Keyshot & Adobe after effects**, further rendering & 3D asset creation done using Substance painter.



### PENTLAND BRANDS.

JUNIOR 3D PRODUCT DESIGNER  
2019 (6 Month Graduate Internship)

Part of the design pool scheme ran by Pentland Brands, off the back of the New Designers Exhibition I started a 3 Month internship working for Lacoste PCL. Helping build their model library, training in **Keyshot & Rhino** for rendering and Visualistaion purposes.



### SOLAR TECHNOLOGY INT.

PRODUCT DESIGN INTERN  
2017-2018

Year long placement at Solar Technology International, Project Managing over 20 projects in the year, helping to develop their new range of hiking and camping products for the Freeloader 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. **Specialist training in solar based electrical engineering and lithium battery systems. CAD modelling and visualization renders for clients over a wide variety of briefs.** As well as final engineering drawings using SolidWorks for final manufacturing.

## EDUCATION



### **BRUNEL UNIVERSITY. 1ST CLASS HONOURS PRODUCT DESIGN ENGINEERING (BSC)** *with Professional Practice* 2015-2019

Trained in CAD/CAM software - SolidWorks, Blender, Fusion 360, Keyshot, Rhino, Adams, Ansys, Geomagic 3D, KiCad PCD design

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; 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, Computational Fluid Dynamics, Dynamics, Mechanics and stress analysis

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



### **SHARNBROOK UPPER SCHOOL** 2010-2015

A-Levels: Electronics (A), Product Design(B), Physics(B), Maths AS (B).

GCSE's: 12 Grade A\*- C - subjects as Programming and Computing amongst others

## AWARDS & OTHER QUALIFICATIONS

### AWARDS

James Dyson Award UK 2019 - Runner up, for Sun Up Solar Backpack

Dezeen Awards 2020 - Long Listed in Wearable Design for SunUp Solar Backpack

C-Idea Award Nomination 2019 - For Sun Up Solar Backpack

### QUALIFICATIONS

Outdoor First Aid Qualified (16hr Course) 2022

ICDL Qualification (Previously ECDL)

Full UK Drivers License

## MORE ABOUT ME

I am a product design engineer with a special interest in the outdoors. Combining both interests into outdoor design to produce creative concept generation, with the engineering background to back up concepts with practical production methodology. The outdoors is what I want to design for because it's where I enjoy being the most. Whether I am just designing for it or going out on an expedition it's where my best ideas come from.

I feel I have an eagerness to learn and well-rounded skills to build on, I have great project management skills having collaborated with companies such as The North Face specifically and the ability to communicate my ideas graphically at a high level having used this in presentations and pitches to various clients and companies. I regularly go out on hiking and camping expeditions to all sorts of locations and will continue to do so into the future wherever possible.