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Education

Imperial College London - Integrated Masters (MEng), Design Engineering

(2017-2021)

- Graduated with Upper Second Class Honours.
- 30 modules with an emphasis on creativity, development of techonological products and group collaboration.
- Modules covering: Human Centred and Industrial Design; Mathematics; Production and Materials; Electronics; Programming; FEA; Biomimetics; Mechatronics; Robotics; Optimisation; IoT; Additive Manufacturing.
- Masters Project: Title: 'Designing a learning environment to supplement nonverbal communication in videoconferencing'. A HCl project developing a software interface that incorporates automatic nonverbal behaviour feedback tools to offer practise and evaluation of nonverbal communication in video-conferencing. Aiming to improve wellbeing by allowing users to maximise use of available nonvebal bandwidth.

St Josephs College Sixth Form - 1A*,2A,1B, A-Levels

(2015-2017)

- A*AAB (Mathematics, Further Mathematics, D&T: Product Design and Physics respectively).
- Worked with an industrial manufacturing company during A2 Product Design to produce a key part of the project.

Achievements

- Duke of Edinburgh's Awards (Bronze, Silver)
- Tech Prize 6th Form

Interests

- See portfolio (www. robgarland.co.uk)
- Recreational Interests:
 Mountaineering, Skiing,
 Rugby, Cricket, Motorsport,
 Cycling, Racketlon,
 Golf, eSports and Video
 Production.

Voluntary Work

- Kibblestone Scout Camp

 Den Team:
 Maintainance of Scout
 Camp stationed for 2-3
 days at a time.
- Care for Alzheimers
 Patient: Helped look
 after the care and
 wellbeing of a gentleman
 suffering with late stage
 Alzheimers.

Languages

- English (native)
- German (limited working)

Experience

Elusive Parts - Design Engineer

(Mar 2020 - Jan 2021)

- Initially joined on a 6-month placement as part of my MEng degree, transitioned to part-time following resumption of my studies.
- First employee of an early start-up looking to reproduce NLA and hard to find classic car parts using state of the art 3D scanning techniques and 3D printing.
- Oversaw the development of the business, from developing the reverse engineering process to front-end design (website, customer interactions).
- Corresponded with outsourcers for manufacture of parts that could not be completed in house.
- Produced and finished multiple parts from collecting the 3D scan to finishing and delivering the final piece.

Redspeed International - Product Development (Jul 2019 - Sep 2019)

- Provided direction and guidance for a new vehicle speed enforcement system by developing concepts for the housing, internal layout and functionality of a new camera head.
- Visits made to manufacturers to pitch the concepts and discuss feasibility and production.

Optimise Automotive - Work Experience

(April 2014)

 Valuable insight into a small business specializing in bespoke automotive interior trim and upholstery during my GCSE studies. Learned many hands-on practical skills.

Skills

Sketching
Prototyping
Additive Manufacturing
Programming
Front End Development
CAD
FEA
Graphic Design
Rendering

Rendering
Video and Animation
Administration
Presentation Skills

Teamwork Skills

(Pruza/Ender 3, Arduino, Raspberry Pi, Adobe XD) (3D Scanning, Polymer/Metal Processes) (Python, Arduino, MATLAB) (HTML5/CSS3, JS)

(Solidworks, Fusion360, Quicksurface) (Solidworks, Fusion360)

(Solidworks, Fusion360) (Adobe InDesign, Photoshop, Illustrator) (Blender, Keyshot, Solidworks Photoview) (Adobe Premiere Pro, After Effects)

(MS Office)