

Robert Garland

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I am an enthusiastic, pragmatic young designer, inspired to make the world around us a better place. I work at the intersection between design thinking and engineering knowledge and practice, which provides an opportunity to develop a truly unique skillset and to produce a diverse range of innovative and valuable products and services that work from both a human centred and environmental perspective.

Experience

Redspeed International Ltd. - Product Development (July 2019 - September 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.
- Concepts were developed from the construction of a brief after collaborative talks with members of the company.
- A visit was made to Edmo Ltd. to pitch and discuss the early concepts to a potential manufacturer, specialising in aluminum extrusion, fabrication and finishing.

Optimise Automotive - Work Experience (April 2014)

- Gained valuable insight into a small business specialising in bespoke automotive interior trim and upholstery during my GCSE studies.
- Learned various practical skills including various bench joining and upholstery techniques, in particular interior carpet fitting, some seat sewing techniques and working with machine tools for stock replenishment.
- Was given the responsibility to produce quality controlled orders and fitted parts to be sold after three days of learning and practice.

Voluntary Work

- **Kibblestone Scout Camp - Den Team (2014 - 2016)**
 - Conducting assigned general maintenance tasks and maintaining working order of the scout camp over periods of 2-3 days.
- **Care for an Elderly Gentleman (2014 - 2017)**
 - Helping with looking after the care and wellbeing of an elderly gentleman suffering from Alzheimers for a family friend during overnight and daytime periods ranging up to ten hours.

Education

Imperial College London - MEng Design Engineering (2017-2021)

- A member of the third ever cohort within a competitive new imperial course at the Dyson School of Design Engineering, currently studying in Year 3.
- 2:1s in Years 1 and 2.
- Relevant modules including: Design, Engineering Mathematics, Production and Materials, Electronics, Mechanics, Computing, Big Data, Finite Element Analysis, Gizmo (Mechatronics), Robotics, Optimisation.

St Josephs College Sixth Form - A-Levels (2015-2017)

- A*AAB (Mathematics, Further Mathematics, D&T: Product Design and Physics respectively).
- Worked with KMF, a sheet metal manufacturing company during A2 product design to manufacture a key part of the project.

Clayton Hall Business and Language College - GCSE's (2010-2015)

- 4A*6A1B (A*'s include Maths and Physics).

Achievements and Interests

- Silver and Bronze Duke of Edinburgh's Awards (Gold in progress)
- A range of varied and innovative projects. View my online portfolio at www.robgarland.co.uk.
- Participated in Formula Student at Imperial in Year 1.
- Additional interests including Mountaineering, Rugby, Cricket, Motorsport, Cycling, Ultimate Frisbee, Racketlon, eSports and Video Production.

Skills

Sketching
Rapid Prototyping
Programming (Python, MATLAB, Arduino)
Computer Aided Design (Solidworks, Fusion 360, SketchUp)
Finite Element Analysis (Solidworks Simulation)
Graphic Design (Adobe InDesign, Photoshop and Illustrator)
Rendering (Solidworks Photoview 360/ Visualise and Blender)
Video and Animation (Adobe Premiere Pro and After Effects)
Administration (Microsoft Office)
Presentation Skills

References available on request