

James Higson

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Personal statement

I'm passionate about user centred design, creating solutions to problems for people. I've taken ideas from paper into production and developed strong communication, teamwork and leadership skills along the way. I have several years' experience in world leading technology companies, top 25 FTSE companies and SME start-ups. Please contact me about any opportunities.

Employment

Senior Design Engineer



Perceptual Robotics Ltd

March 2020 – Present

- Developing the next version of autonomous drone for aerial inspections, Dhalion.
- This role involves working as part of the Perceptual Robotics engineering team, designing, refining, implementing and testing all aspects of the product.
- Distinctly focusing on system development, iterative design and the manufacturing of a complex electromechanical system, setting up and managing supplier relations.

Mechatronics Engineer



Dyson Automotive Research and Development Ltd

July 2019 – Jan 2020

- Working within the automotive interiors team I led prototype design and development for the HMI Evaluation team. With a strong focus on the driver's cockpit, looking at the steering wheel, infotainment and HVAC human interactions.
- Managed the development and learning a Dyson Institute Undergraduate.
- Regular presentations to key stakeholders including Execs and Directors.

Design Engineer



Dyson Technology Ltd

Sept 2016 – June 2019

- Worked in the Floorcare category in the Cyclones team, promoted from Graduate to Design Engineer in 9 months.
- Managed a team delivering assemblies globally for product demonstrations.
- Developed understanding of Robust Design, Testing, Manufacturing, Tooling and Design for Assembly. Owned D FMEA's, product requirement documents and risk management.
- Accepted by Dyson's leadership development program (Pioneers), by promoting initiatives to improve our systems and ways of working.
- Contributed to the development of Dyson Cyclone V10, V11 and Cinetic Big Ball.
- Delivered international PR talks launching V10 in Paris and Stockholm. Then solely launched multiple products in Moscow, including V11 and 3 new purifiers.

Design Intern



Specialist Hygiene Solutions Ltd

July 2015 – Sept 2015

- Managed a four-person project, developing advancements in hand hygiene.
- Responsibility for my own project, travelling around the country to consult with users in hospitals and setting up suppliers on behalf of the company.

Design Intern



Reckitt Benckiser plc (Airwick & Scholl)

July 2014 – Sept 2014

- Full time summer placement working on various Airwick projects and projects for Scholl.
- Rapid prototyping for user group tests and packaging design, involving work with Objet (resin) and FDM 3d-printers. I also experienced the use of a 3d-scanner and worked in several different labs.

- Kickstarted a new innovative project and rekindled an old project that had been put on the back burner.

Design Intern



Line Survey Transmission Consultancy Ltd

July 2013 – Sept 2013

- I created the CAD models for a British Standards booklet of approx. 90 parts.
- I converted skills I have in SolidWorks to SolidEdge software and used Microstation for modelling towers.

Workshop Assistant



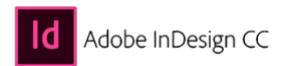
ZCars Evolutions Ltd

July 2012 – Sept 2012

- A custom / commissioned build car company based near Hull. Converting original Minis into powerful racing cars. I performed general tasks to help the mechanics with building and maintenance of the cars.
- Developed a passion for cars and engineering.

Key competencies

Software skills:



Other skills:

Design for manufacturing
Problem solving

Robust Design and Testing
Leadership

Lean Engineering
Project management

Six Sigma
Presentation

Academic achievements

MDes Product Design



UNIVERSITY OF LEEDS

University of Leeds – Mechanical Engineering

2012 – 2016

Classification: 2.1 Honours (68% Average)

Core modules:

Materials
Technology

Statics

Mechanical
Systems

Manufacturing Systems and
Processes

Economics and
Management

Advanced
Electronics

User-Centred
Design

Design of Complex Human-
Technical Systems

University Officers Training Corps

Leeds UOTC

2012 – 2015

MOD 3 Completed – Platoon commander and Leadership training

Other: Level 5 Chartered Management Qualification

St Peter's School York

2002 – 2012

A-levels: Fine Art A Physics B Maths C

References

Charlie Park

Global Director – Environmental care

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