

Joshua Ronald Rowe

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EDUCATION

University of Bath, England **2015-2020**
Meng (Hons) Integrated Design Engineering with Placement in 3th year of study

Upper Second-Class Honours

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|------------------------------------|-----------------------------------|
| Mechatronics | Design Optimisation |
| Business Processes | Structured Programming |
| Energy systems and the Environment | Major Individual Design Project 1 |
| Electronic Devices & Circuits | Control Systems |

Banbridge Academy, Co. Down, Northern Ireland **2008-2015**
A levels – Mathematics (A), Technology and Design (A) and Physics (B)
AS levels – ICT (B)

EMPLOYMENT RECORD

CATERPILLAR INC. – Global Power Solutions Division LARNE, NORTHERN IRELAND
Electrical Engineering Intern August 2017 – August 2018

- Designed circuits for bespoke electrical generation systems
- Dealt with production issues on the workshop floor
- Tested, implemented, and oversaw manufacturing changes within electrical panels
- Created and continuously improved an Excel-based pricing configurator to enhance the pricing accuracy of future generation solutions
- Researched the ISO standards and introduced a new compliant product range for motor control electrical panels

BROADLEAF PROPERTY MANAGEMENT GILFORD, NORTHERN IRELAND
Management and Maintenance Support June 2016 – September 2016

- Helped develop a plan for housing estate annual general meetings
- Upkeep of managed properties on site

HALFWAY HOUSE RESTAURANT DROMORE, NORTHERN IRELAND
Waiter/Barman September 2014 – July 2015

- Part-time during my final year of A-levels to fund travelling
- Serving tables improved my customer service and ability to work under pressure in a fast-paced environment

BANBRIDGE ACADEMY BANBRIDGE, NORTHERN IRELAND
Personal Tutor September 2013 – June 2015

- Tutored one-on-one in Physics and Maths, proving extremely rewarding in helping others achieve their goals
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ENGINEERING PROJECTS AND TECHNICAL SKILLS

CAD software introduction and guide production

Introduced Caterpillar to the use of EPLAN within the department (GPSD), working closely with EPLAN staff to produce a tailored start-up guide to educate GPSD. EPLAN is still currently being implemented within the company. Working in this environment I learned to be more transparent and communicate across levels in the team.

Future Energy Plan

Led a group preparing and presenting a proposed future energy plan for France. Planning the electricity needs and producing a carbon budget. Within this project, I learned to be a better leader by improving my communication skills as well as encouraging others to contribute.

Mechatronics Design Project

Worked in an agile team to develop a mechanism for detecting and marking magnets with plastic cups. This project highlighted my skills in various areas Inventor (mechanical), circuit design (electronics) and MATLAB (software). Gaining a better understanding of the integration of engineering sectors within a product.

OMMS Research Group

With the aid of academic researchers, I worked with a team of students to complete a feasibility study on the preliminary design and commercialization for current CAR-T immunotherapy. I used process engineering in the module integration. I thoroughly enjoyed this project because it pushed my limitations and I am eager to understand new technologies.

COMPUTER SKILLS

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|---|--------------------|
| MS OFFICE | Highly competent |
| AutoCAD, SolidWorks, AutoDesk Fusion & inventor | Competent |
| MATLAB, Simulink & OrCAD | Competent |
| C, Python | Competent |
| Adobe & Outlook | Business Knowledge |
| EPLAN, SAP | Basic Knowledge |

ACTIVITIES AND INTERESTS

Hockey - Previously a member of the University of Bath Hockey Club. I enjoy pushing my physical abilities as well as working with a team and see it improve through my University career. I have competed for Ulster U18s and U21s at interprovincial level.

Golf – Passionate golfer always looking for ways to better my swing and become more consistent playing at Tandragee Golf Club off a handicap of 15.

Mountaineering - As an avid fan of walking, climbing and camping I recently challenged myself and reached the summit of Mt. Kilimanjaro in aid of the charity, The Children’s Society. This highlighted both my mental strength and persistence in never giving up.

Horse Riding – I have been horseback riding my entire life. In July 2016, I competed in the Mounted Games World Championship for Northern Ireland.

Computers - I am a passionate fan of building and improving computers, an area in which I am self-taught, displaying my eagerness to learn and my analytical ability to detect and correct faults.

REFERENCES AVAILABLE UPON REQUEST