

# Harry Fotheringham

MEng Aeronautical and Aerospace Engineering - The University of Leeds

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## About Me

I am an ambitious second-year student studying Aeronautical and Aerospace Engineering MEng at the University of Leeds. I am a highly motivated individual, with a great interest in mechanical design and manufacture and am very keen to take opportunities that will allow me to bring my ideas to the industry.

## Education

University of Leeds: 2020 - Present

MEng Aeronautical and Aerospace Engineering

Level 1		Level 2	
Module	Result	Module	Result
Engineering Mathematics	86%	Engineering Mechanics	Pending
Design and Manufacture 1	68%	Design and Manufacture 2	Pending
Computers in Engineering Analysis	87%	Vibration and Control	Pending
Engineering Materials	76%	Mechatronics and Measurement Systems	Pending
Solid Mechanics	86%	Economics and Management	Pending
Thermofluids 1	71%	Thermofluids 2	Pending

New College Doncaster: 2018 – 2020

A-levels: Mathematics - A\*, Biology - A\*, Chemistry - A\*, Physics - A\*

The Hayfield School: 2013 – 2018

Achieved 11 GCSEs ranging from grades 9-6, with a grade 9 in Maths and 8 and 7 in English Literature and Language respectively. Including an A\* in Product Design with Electronics.

## Industry Experience

Member of formula student team: September 2021 - Present

Involved in electric vehicle powertrain design and manufacture. My roles:

- CAD drawings – used Solidworks to develop designs of different parts
- Research – researching different aspects, such as fire proofing gels and electric motors
- Presentations – give presentations to the team showing findings to choose the best for our design

Tata Steel, Netherlands: July 2019

Gained hands on experience and an introduction to the world of work, assisting in a range of independent sectors within the company. Performing tests and developing programs used in the full-scale factories. My roles included:

- Performing Tensile Tests – Inputted data on the bone sample such as width and length, putting samples in the machines and operating to measure the Youngs Modulus of the material
- Recording Data – recording data on the small-scale hot mill as it was relayed back
- Programming – programmed a system that controls the water jet's spray when cooling of the metal in the full-scale hot mill

## Technical Skills and Online Courses

- Arduino
- C++
- MATLAB
- Simulink
- Solidworks – CWSA Certification

### *Academic and Personal Projects*

Helicopter Hovering project – *Computers in Engineering Design* project using Arduino and C++ code. Wrote and tested code to cause a remote-controlled helicopter to take off, hover at a specific altitude and be hovering in for a certain amount of time, printing out data each stage of the flight, indicating some key parameters.

### *Other Experience*

Lifeguard, Bircotes Leisure Centre, BPL: November 2019 - present

Developed communication skills when talking to customers and maintaining safety in the pool. Team working ability has strengthened dramatically from training with my team and having to work well together as a successful rescue is heavily dependent on the team's communication.

Maths Tutor, Langold Dyscarr Primary School: 2017 - 2021

Tutored maths at a local school in Langold. Spent time with the year six children completing their SATs in groups of up to 10. Helped to understand how other people learn and how best to help them. a highly rewarding experience whilst teaching resilience.

Summer Camp leader, Bawtry CC: May 2020 – July 2020

Took on a role as a leader at a local summer camp. Involving running activity sessions varying in difficulty and sport for groups of up to 20. Further improved communication, leadership and team skills to coordinate with other leaders and the children participating. Role included admin work, included creating a register system to keep a record of those attending for their safety. Also made risk assessments for a lot of the activities.

Cricket Coach/All Stars activator, Bawtry CC: May 2018 – July 2020

Taken on coaching a wide range of age groups ranging from the under 5's to the under 17's in vast numbers from 20 – 30 children. Become an all-stars activator leading a lot of the drills and activities at training for younger ages.

### *Key Employability Skills*

Communication – Used most while in a customer setting and in leading group activities

Teamwork – Worked in a team when completing projects for first year achieving firsts. During coaching and lifeguarding, ensuring the customers are safe the service provided is its best.

Adaptable – Using different techniques to communicate with different people, such as explaining diagrams online and performing demonstrations both in coaching and in software required to use as part of group projects.

Organised – Having university work and also being a member of the cricket society and the formula student team requires lots of planning to make sure to be on top of everything important.

IT – Computer Science GCSE and current University modules require knowledge of excel and basic programming languages.

*References available on request*