

Harry Potter

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Education

Hogwarts College, University of Cambridge

Oct. 2020 – June 2024

MENG ENGINEERING

- Mechanical engineering covering mechanics, mechanical vibrations and thermofluid mechanics.
- Structures covering materials and structural mechanics.
- Electrical and information engineering covering physical principles of electronics, analysis of circuits and devices, linear circuits, electromagnetics, digital circuits and information processing.
- Mathematical Methods covering mathematics and computing.

Coursework

- Working on a Lego Mindstorm project as a team of three, I designed and built an electro-mechanical movable car gearbox device using Lego. Voice, touch sensors and electrical components were integrated in the project using MATLAB.
- Designing, building and testing an AM radio using LTspice, multi-meters and Microprocessors.
- Developing structural design knowledge by designing, manufacturing and testing a metal structure to carry specific loads at minimum cost.
- Product design project where we design a device to meet a specified need as well as presenting our final ideas to an audience.
- Working through problems using Python for numerical analysis.
- Working on microprocessors to learn to program in machine code, producing and evaluating a temperature control program.
- Drawing skills and CAD using SolidWorks, constructed a model of a gravity-powered rollercoaster to experiment with conducting motion analysis and designing and assembling structures on CAD.
- Laboratory experiments to observe and test the behaviour of a wide range of engineering materials, components and systems.

Hills Road Sixth Form College, Cambridge

Sept. 2017 - Jul. 2019

A level Physics (A*), Mathematics (A*), Chemistry (A)

Sawston Village College, Sawston, Cambridge

Sept. 2012 - Jun 2017

10 GCSEs (grades A* and A)

Experience

Cambridge University Eco Racing (CUER) team, Cambridge

Oct. 2019 - Present

- Working in a student club to design, develop and build a solar vehicle.
- Working in the electrical sub-team to help design and build the car's electrical system to make it as efficient as possible and to maximise the performance of the race vehicle.
- Using C++, to resolve problems seen in the embedded software.

Headstart Course in Aerospace Engineering, Coventry University

Aug. 2017

- Completed an aircraft crash investigation to improve future aircraft designs.
- Worked in a team of 3 to solve specific aerospace problems when faced with resolving an air crash investigation.
- Used the Wind Tunnel to investigate the aerodynamic effects in flight.
- Used a Flight Simulator to replicate an air crash, computing facilities to analyse data and aircraft to inspect for damage.

Elliott Civil Engineers, Cambridge

Jul. 2019 - Sep. 2019

Engineering Intern

- Learnt how to use the software AutoCAD and used this to design a variety of railway bridges. Built a model of my suspension bridge and constructed it using a 3D printer.
- Shadowed an engineer on site performing bridge examinations. Used Level O assessment tool to carry out a number of assessments on different types of railway bridges in Cambridgeshire, including masonry arches and metallic underbridges. This involved researching background information about the bridge and identifying load and section properties to calculate the capacity of the bridge in its current state.

Frontier, Madagascar

Jul. 2018 – Aug. 2018

English Teacher

- Taught conversational and beginner's English to local communities, from primary school children to adults.
- Planned and carried out fun and interactive lessons to develop the confidence and conversational skills.
- Continuous assessment of each child and adapted teaching and learning plans accordingly.
- This experience taught me the value of teamwork, flexibility and good communication skills. It also gave me a fantastic opportunity to experience new cultures and different working practices.

Sainsbury's, Cambridge

Jun. 2017 - 2019

Customer service assistant (part-time to fit in around college)

- Duties include working on the checkout and at the customer service desk.
- Working with a variety of people has developed my interpersonal and communication skills.
- Learnt to work effectively under pressure and as part of a large team.

Extra-curricular Activities

Cambridge University Officer Training Corps

Oct. 2020- present

- Taking part in a variety of leadership training
- Working as part of a team of 4 to solve a problem on how to organise and action a two day event. This involved having to speak with a range of senior people to agree to timetable of activities.

Football, Hogwarts College, Cambridge

Jan. 2010 - present

- Progressing as a player with Hogwarts FC and now with the Hogwarts college team.
- Attending regular training sessions with 15 other players, working on our team playing skills on a regular basis.
- Promoted to team captain at Hogwarts FC and planned the weekly committee of 8 people to discuss upcoming fundraising events and matches.

Referees

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