Calum Powell

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EDUCATION

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University of Bristol

- MEng 2nd year Mechanical Engineering with Industrial Placement (Hons)
- Grade (Current): First Class, 74% 0
 - Awarded fastest creation award in first year design and manufacture project.
- 0 Relevant coursework:
 - Materials Engineering (2nd year): Composite design and techniques, stress and strain, yield criteria.
 - Engineering Mathematics (1st/2nd year): Mathematics applied to engineering problems, vector calculus, applied statistics, linear systems and partial differential equations.
 - Engineering Practice (2nd year): Design and manufacture, CAD modelling (Fusion 360), mathematical modelling and team management applied to several realistic engineering problems, including the drivetrain of a quadbike.
 - **Thermofluids (2nd year):** Hydraulics, compressible flows, mechanical energy conversion, sustainable energy systems, fuel cell thermodynamics, flow around 90-degree bends.

Northampton School for Boys Northampton, UK

A-level: (A*A*A*A*) Mathematics, Physics, Chemistry and EPQ GCSE: 11 (9s), including Mathematics (9) and English (9)

PROFESSIONAL EXPERIENCE

Stable Fabrication

- Design and Manufacture, Work Experience
 - Translated handmade engineering drawings from a 1990s car to CAD models (Fusion 360), which lead to praise from the director and the parts to be sent to manufacture.
 - Exposed to the manufacture and production of strict tolerance mechanical parts for racing cars, especially those used in 0 chassis and suspension systems.
 - Created a program for a CMM to certify the quality of manufactured parts and discussed failures with machinists. 0

Leonardo UK

- Systems and Manufacture, Work Experience
 - Improved soldering skills by creating and designing a PCB board for a proximity sensor. 0
 - Designed a basic antenna which was used to gain an understanding of their applications to everyday life. 0
 - Presented to an audience of employees a detailed summary of the skills I had gained throughout the experience. 0

Helix Powertrain (Integral Powertrain)

- Design and Manufacture, Work experience
 - Introduced to the development and manufacture of high-performance electric motors. 0
 - Invited to use a test rig on a motor which was modified throughout the experience to carry out various tests. 0
 - Tested and built inverters for development and commercial use. 0
 - 0 Taught the basics of CAD modelling using Catia to design brackets to be used with motors.
 - Following the testing I helped to report on the results of the tests using excel and filling out technical reports. 0

EXTRACURRICULAR

Bristol Racing

- Composites technical team leader
 - Leader of a group of 10-20 members focused on designing and manufacturing composite parts. 0
 - Involves selecting appropriate materials; budgeting; making a bill of materials and creating manufacture process plans. 0
 - Worked at the National Composites Centre (NCC) to complete a resin infusion to manufacture a carbon fibre part. 0
 - Designed and manufactured a glass fibre tool to be used at the NCC. 0
 - Currently working on developing an upgraded lid for car currently competing in the Greenpower 24+ competition. 0

Mens Rugby

- Treasurer and vice-captain
 - Current starter for Clifton Crusaders intramural rugby team at the university of Bristol. 0
 - Gained a dedicated work ethic and focus through consistently training within the team. 0

ADDITIONAL INFORMATION

- DofE: Achieved gold level award
- Skills: Arduino (Self-taught), Python (Learning), Autodesk Fusion 360
- Badminton: Competed at county level
- Interests: Golf, Rugby, Computer Programming, Motor Sport, Cooking, Woodworking

Sep 2016 - Jul 2023

Towcester, UK

Summer 2024

Milton Keynes, UK

Summer 2022

Society

Sep 2023 - Present

Society Sep 2023 – Present

Luton, UK Summer 2023

Sep 2023 - Jul 2028 (Expected)

Bristol, UK