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Profile

Motivated A-level student aspiring to a career in Aerospace Engineering. Foundations in STEM subjects, with experience of design, prototyping, and manufacturing techniques, through personal and collaborative engineering projects.

Education

Stroud High Sixth Form

Sixth Form, 2025-2027

- Studying A-Level: Maths, Further Maths, Physics, and Computer Science.

Marling School, Stroud

Secondary School, 2020-2025

- Studied GCSE: Maths (9), Physics (9), Computer Science (9), Biology (8), Chemistry (8), French (8), German (7), RE (7), English Language (6), English Literature (6). FSMQ: Additional Mathematics (A).

Experience

SHSF UKROC – Team Lead

United Kingdom Rocketry Challenge, 2026

- A team engineering challenge to design, build and, manage the construction of a set of rockets to specifications given in the rules.
- Gathered sponsorship from companies.
- Organised the creation of the team.

Model Rocketry

Hobby, 2022 – present

- Constructed and flown several kit and scratch built model rockets with a range of impulses (2.5-40 Ns).
- Learnt how to iterate on designs (OpenRocket).
- Regularly attend meetings at Fins Over Gwent Rocketry Club.

Renishaw Work Experience Week

Renishaw PLC (Precision Automation Machinery Manufacturing), 2024

- A week-long summer work experience placement.
- Placed in a team given the task to design a prosthetic.
- Designed and prototyped a rudimentary mechanical hand, using OnShape and 3D printing.
- At the end of the week, presented the design to members of the business, and other teams.

Project Skylark

The Flying Start Challenge entry, 2022

- An engineering challenge in which I participated with a team to design, build, and fly a model glider which could glide as far as possible.
- My team reached the competition final and overall, we achieved 7th out of 50 teams.

Awards

Arkwright Engineering Scholar

Scholarship, 2025-2027

- Went through a multi-stage application process, against over 1000 other students, including an engineering project, aptitude test, and interview.
- My application project was a rocket altimeter; designed (KiCAD, FreeCAD), built (SMD Components), and programmed (C++) with several iterations, using a barometer, accelerometer, gyroscope, magnetometer, and video stream over Bluetooth and Wi-Fi.

Skills

- Computer Aided Design: FreeCAD, Onshape, OpenRocket, KiCAD
- 3D Design, Printing, and Prototyping
- Printed Circuit Board design and manufacture
- Embedded programming with C++
- Presentation skills