

Max Dubowski

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SUMMARY

Aerospace Engineering undergraduate at Heriot-Watt University with hands-on experience across embedded systems, software, and engineering simulation. Comfortable at the intersection of hardware and software, with strong teamwork and customer-facing experience. Full UK driving licence.

EDUCATION

Heriot-Watt University

BEng (Hons) Aerospace Engineering

Edinburgh, UK

Sep. 2024 – May 2028

- Deputy Principal's Award for academic excellence (Grade A in six or more first-year courses).
- Strong foundation in mathematics, physics, mechanics, and engineering design.

Heriot-Watt University Malaysia — Study Abroad Semester

Aerospace Engineering Exchange

Putrajaya, Malaysia

Sep. 2025 – Dec. 2025

- Developed adaptability and multi-cultural communication

EXPERIENCE

Assistant Property Manager

Private Residential Portfolio (Self-employed)

Feb. 2025 – Jan. 2026

Edinburgh, UK

- Acted as primary contact for a private residential portfolio, managing the check-in/check-out process.
- Diagnosed maintenance issues and supervised works to ensure quality.

Seasonal Sales Associate

Card Factory

Oct. 2024 – Dec. 2024

Edinburgh, UK

- Delivered strong customer service during the peak holiday season, handling cash and card transactions accurately.
- Managed stock replenishment, pricing, and merchandising while supporting the team to meet sales targets.

Freelance Graphic Designer

Self-employed

Apr. 2023 – Aug. 2024

Remote

- Created 3D product mockups and high-impact posters for advertising and client websites using Adobe Creative Suite.
- Delivered projects on time to a consistently high standard, increasing client engagement.

PROJECTS

Missile Trajectory Tracker | *Python*

- Built a physics-based simulator modelling guided missiles following target coordinates.
- Implemented ballistics calculations with real-time trajectory visualisation and flight-path animation.

StormWatch AI | *Python*

- Developed an app that predicts local storm development from satellite imagery and weather radar data.
- Integrated external data APIs and processing pipelines to surface near-term forecasts.

Friendly — Campus Connection App | *TypeScript, Hackathon*

- Built at RGU Hack with a team of four under time pressure to help students find and meet up with friends on campus.
- Collaborated using Git for version control.

Bending Beam Analysis | *C++*

- Wrote a C++ tool to compute beam bending and structural response for engineering coursework.

TECHNICAL SKILLS

Languages: Python, C++, Swift, TypeScript, JavaScript, HTML/CSS

Tools & Platforms: Git/GitHub, Arduino, Autodesk Inventor, Adobe Creative Suite, VS Code

Concepts: Embedded Systems, Microcontrollers, Computer Vision, Data APIs, 3D Printing & CAD

Languages (Spoken): English (native), Polish (native)

AWARDS & EXTRACURRICULAR

Deputy Principal's Award — Academic excellence for Grade A in six or more first-year courses (2025).

National UK Maths Challenge — Gold award.

Hackathons — Placed 11th of 60 teams in a university coding competition; engaged with the BlackRock Aladdin team.