

Hayden Bell | Aspiring Information Security Engineer

✉ Haydenbell2206@gmail.com 📞 07389 174737 🌐 Edinburgh

EDUCATION

Heriot-Watt University

Sept. 2024 - Current

Working towards a B.Sc. in Computer Science. (Expected Graduation 2028)

Edinburgh

- Notable modules include Data Communications and Networking, Data Structures and Algorithms, Computer Systems, Foundations (Lambda Calc.) and Discrete Maths
- Achieved first class in every module noted here, on track to achieve a First-Class Bachelor of Science, with Honours
- Grade A in Advanced Higher Computer Science, and grade A in Higher Mathematics at Westhill Academy (2024)

SKILLS, AWARDS, AND CERTIFICATIONS

- **Skills:** GNS3, Linux, Shell Scripting, Penetration testing, vulnerability assessment, C (Embedded), RTOS development, ARM7, Python, SQL, concurrent systems, CAN and Hardware-Software Interfacing.
- **Awards:** Deputy Principal Award HWU (x2), 50-hour saltire award ("The Ascent"), and 20+ Competitive sports trophies
- **Certifications:** CS50: Introduction to Computer Science – Harvard School of Engineering etc; Linux Fundamentals – HackTheBox; Penetration Testing Process – HackTheBox; SOC & Jr. Cyber Security Analyst – HackTheBox.

WORK EXPERIENCE

HW Racing

Sept. 2024 – Current

Software Engineer

Heriot-Watt University, Edinburgh

- Designed and created a Vehicle control unit to work securely, efficiently, and effectively. I developed CAN message handling, fault detection, watchdogs, and more in embedded C
- Working as part of a larger team to create a working formula style vehicle
- Large focus on secure programming practices such as bound checking, watch dogs, and static analysis

TK Maxx

Jul. 2025 – Current

Retail Sales Assistant

South St David Street, Edinburgh

- Processed customer transactions accurately and efficiently whilst handling customer inquiries and resolved any issues in a timely manner

Card Factory

Aug. 2023 – Sept. 2024

Sales Assistant

Westhill Shopping Centre, Aberdeenshire

- Processed customer transactions accurately and efficiently and assisted customers in selecting products with good service.

PROJECTS (Can be found at: <https://github.com/HaydenLBell>)

- **VCU Software for Formula Style EV vehicle (Embedded C, Python):** Created the primary piece of software that allows a formula style vehicle to run. Developed CAN handling, multi-threading, and state machine.
- **Home Lab:** Built a multifunction home lab that provides utility at home, including ad blocks and cloud storage (Pi-Hole, Nextcloud, etc.)
- **Stealth FPS Game (Made in unity, C#, HLSL, SQL – Project private due to copyright)**
- **Investment Demo, Calculator, Projector, and Trade view Programme (Java):** Built a secure trading platform that allows a user to purchase stocks and ETFs, calculate estimated profits, and view candles.
- **OpenGL Graphics Engine (C++):** Built a real-time 3D renderer with lighting, shaders, and camera control.

REFERENCES: Available upon request
