

Noa Burt

Curriculum Vitae

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Education

2022–2026 **BEng Computer & Electronic Systems**, University of Strathclyde, Glasgow, Scotland

Professional Experience

2025 **Embedded Software Summer Internship**, Thales UK, Govan, Scotland
Embedded Software Engineer Intern

- Co-lead project to act as “Embedded Software specialists” assisting Control Systems team
- Proposing, implementing, and testing changes in Simulink models for various complex control algorithms, with the objective to generate more efficient C code
- Identified possibility to automate a Simulink optimisation, created a custom MATLAB tool as the feature was not supported by MathWorks
- Improved Processor In the Loop (PIL) testing pipeline by utilising USB On-The-Go through software, instead of previous limited UART USB connection
- Provided detailed documentation of MATLAB tool, changes to PIL pipeline, as well as Wiki pages explaining how better code was generated, for Control Systems team

2022 – 2025 **Kitchen Porter**, The Boarding House, Howwood, Scotland
Member of kitchen staff for a popular Gastropub in Howwood.

- Development of time management skills, working in a fast-paced environment
- Often given responsibility of customer food preparation and presentation

Projects

2023 – pres. **Formula Student FS-AI**, University of Strathclyde Motorsport
Head of Software Infrastructure

- Active member of the University of Strathclyde’s Formula Student team, **USM**
- Played a role in leading the team to compete in the FSUK Driverless competition in 2024 for the first time in the team’s history
- Lead development of an Automated Testing system in 2024/25, using a custom vehicle simulator, GitLab CI, and other tools newly available to the team that year
- Head of Software Infrastructure for the team through 2025/26, leading further development of our custom simulator and automated testing package
- Surveys collected from team members identified areas needing improvement in the software development workflow
- Became confident in using Docker and GitLab systems, writing guides for new members on the subjects

2023 – 2024 **Simple Shell Project**, University of Strathclyde
2nd Year Operating Systems Class: Group Assignment

- Building a simple shell for Unix-type system in C
- First exposure to C, Linux, and GCC tools, as well as CPU processes and threads, memory management, and other such OS concepts
- Challenge of this project led me to develop my understanding of C further, eventually leading to an interest in C++ and Embedded Systems
- Also led to selecting Microcontroller classes through my 3rd and 4th year, further developing my C++ and assembly skills

Programming Languages / Tools

Some examples of the skills below are displayed on my personal [GitHub](#)

Python	Proficient	<i>USM FS-AI, Personal development</i>
C	Proficient	<i>Uni projects, Personal development</i>
C++	Proficient	<i>Work, USM FS-AI, Personal development</i>
Git	Proficient	<i>USM FS-AI, Uni projects, Personal development</i>
MATLAB	Proficient	<i>Work, USM FS-AI, Uni projects</i>
Simulink	Proficient	<i>Work, Uni projects</i>
Java	Competent	<i>Uni projects</i>
Docker	Competent	<i>USM FS-AI</i>
ROS2	Competent	<i>USM FS-AI</i>
LaTeX	Basic	<i>USM FS-AI, Personal development</i>
VHDL	Basic	<i>Uni projects</i>
GCC Tools	Basic	<i>Work, Personal development</i>

General Interests / Hobbies

- Electronics Design
- Control Systems
- Bagpipes / Pipe Bands
- Bare Metal Programming
- Motorsport (Rally, MotoGP, F1)
- Linux