Noa Burt

Curriculum Vitae

noaburt051221@gmail.com
noaburt
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Education

2022–2027 **MEng Computer & Electronic Systems**, *University of Strathclyde*, Glasgow, Scotland

Professional Experience

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

- Acting as "Embedded Software specialist" 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 for the PIC32 platform
- 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 implementing software to utilise USB On-The-Go interface, 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 – pres. **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
- Occasionally tasked with getting new employees up to speed in the kitchen
- 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 roll 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 lead me to develop my understanding of C further, eventually leading to an interest in C++ and Embedded Systems
- Also lead 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	*USM FS-AI, Personal development*
C	Proficient	*Uni projects, Personal developent*
C++	Proficient	*Work, USM FS-AI, Personal development*
Git	Proficient	*USM FS-AI, Uni projects, Personal development*
MATLAB	Proficient	*Work, USM FS-AI, Uni projects*
Simulink	Proficient	*Work, Uni projects*
RISC Asm	Competent	*Work, Uni projects*
Java	Competent	*Uni projects*
Docker	Competent	*USM FS-AI*
ROS2	Competent	*USM FS-AI*
LaTeX	Basic	*USM FS-AI, Personal development*
VHDL	Basic	*Uni projects*
GCC Tools	Basic	*Work, Personal development*

General Interests / Hobbies

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