

Cole Fuerth – Embedded Software & AI

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SKILLS

Languages : Python, C/C++, Make, Java, Rust, Bash, Nix

Environments : Embedded linux on ARM and

Dev environment : Pop!_OS or Ubuntu, with my dot-files setup on it.

EXPERIENCE

Stealth Startup

Software Engineer

January 2025 – Present

Marina Del Rey, CA

- Embedded linux work with Rust, Bash, Nix, U-Boot.
- U-Boot board bringup, BMS firmware, PubSub architecture, automated testing, etc.

Satcom Direct Avionics

Embedded Linux Software Developer

August 2023 – January 2025

Ottawa, ON

- Primarily worked on OpenWRT-based modems and routers that used the U-Boot bootloader; included I2C drivers and firmware upgrades. Products range across ARM, ARM64 and x86 architectures.
- Created automation tools for rapid software testing using QEMU to emulate proprietary hardware.

BMSLabs Windsor

Battery Management System Firmware Engineer

Jan. 2022 – Apr. 2023

Windsor, ON

- Developed a cloud-based database and AI-powered SOC-estimation tool for Battery Management Systems using Python, as well as a fork of the LibreBMS firmware to collect data over MQTT and test the estimation tool.
- Made a (separate) dynamic interface between **I2C/UART** on **Arduino** and **Python** over USB using JSON packets, allowing for real-time data collection and analysis for thesis projects.

Smyth Innovations

Embedded Electronics Engineer

November 2021 – July 2022

Chatham, ON

- Developed a custom ECU for an RD400 motorcycle using **EasyEDA** for board design, and **C++** for software development. Custom wiring and PCB assembly done by hand.

PROJECTS

I don't have as much time anymore for projects as I did in college, but I still design and build electric longboards and own old motorcycles, and have a home linux server. I play games, build things when I need them, and generally got good at technical projects through doing everything myself growing up.

EDUCATION

University of Windsor

BSc[H] Computer Science with Artificial Intelligence Specialization | Minor in Mathematics

September 2020 - April 2023

Windsor, ON

- Computer Science Teaching Assistant; Electrical Engineering Research Assistant; Tutored anything CS or EE related
- Won first place at both CSGames 2023 for Emulators and WinHacks 2021 for Hardware.

St. Clair College

Electronics Engineering Technology, Associate Degree

September 2017 - April 2020

Windsor, ON