

# Cole Fuerth – Embedded Software & AI

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## SKILLS

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**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

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### Stealth Startup

January 2025 – Present

*Junior Software Engineer*

Marina Del Rey, CA

- Embedded linux work with Rust, Bash, Nix, U-Boot.

### Satcom Direct Avionics

August 2023 – January 2025

*Embedded Linux Software Developer*

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

Jan. 2022 – Apr. 2023

*Battery Management System Firmware Engineer*

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

November 2021 – July 2022

*Embedded Electronics Engineer*

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

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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

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### University of Windsor

September 2020 - April 2023

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

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

September 2017 - April 2020

*Electronics Engineering Technology, Associate Degree*

Windsor, ON