Drew Buckley

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RESUME OBJECTIVE

A highly motivated embedded software and firmware developer looking for new challenges and to expand my skillset in IoT embedded development and code optimization.

SKILLS

Rust	C/C++	Python	Arm SoCs (primarily iMX family)	IVI/VISA
Linux System Programming	Bare-metal Programming	OTA Update Architecture	Secure Boot	Oscilloscopes/ Logic Analyzers
U-Boot	Buildroot	Device Trees	Git	Jenkins

EXPERIENCE

Embedded Software Engineer   February 2022 – Present
Sense Labs, Inc.
- Individual contributor and project technical lead.
- Designed and implemented Linux secure boot chain supporting multiple hardware platforms.
- Refactored and expanded functionality of OTA update subsystems.
- Collaborated with electrical engineers to develop board support layers for IoT hardware.
- Maintained and developed custom Linux and U-Boot drivers.
- Collaborated with backend engineers to develop IoT web APIs.
- Implemented build tooling and ops tooling for managing IoT device fleets.
- Debugged both application-level and chip-level WiFi issues.

Software Engineer   August 2019 – February 2022
Teradyne, Inc.
- Developed Windows drivers and embedded software in C and C++.
- Developed networked services in C++, C++/CLI, and C#.
- Performed maintenance on large legacy C++ and C# code bases.
- Collaborated with FPGA design engineers to implement various bus protocols and digital signal processing algorithms.
- Supported debugging on new hardware and FPGA HDL designs.
- Technical lead of a project with four individual contributors.

Computational Modeling and Research Co-op   2018 – 2019
Quantum Nanostructures and Nanofabrication Group (QNN)   (mix of full time and part time)
Massachusetts Institute of Technology

Software Engineering Co-op   2017 – 2018
Teradyne, Inc.   (mix of full time and part time)

PUBLICATION

Nanoantenna design for enhanced carrier–envelope-phase sensitivity   Published June 24, 2021
https://doi.org/10.1364/JOSAB.424549

EDUCATION

Wentworth Institute of Technology | Boston, MA   August 2019
    Bachelor of Science in Electrical Engineering
    Minors in Applied Mathematics and Physics
    Graduated Magna Cum Laude