Anton Liakhovitch

Objective: Embedded Software Engineer

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🐙 liakhovitch   🌐 https://liakhovitch.github.io

Professional Experience

2018 – 2023	**Technician,** Information Technology, Oregon State University College of Engineering.
2022	Contracted by Dr. Jason Weiss' research group to design a switching PCB.

Education

2018 – 2023	**B.S, Oregon State University** Electrical and Computer Engineering *Graduating June 2023*

Skills

- Thorough knowledge of C and Rust, some experience with C++, Python, Matlab.
- Microcontrollers: Experience with AVR, STM32, ESP32/8266, RP2040, others.
- Worked as a Windows and Linux sysadmin, experience with embedded Linux (uBoot, RO root, etc).
- Circuit and PCB design in KiCAD, hand and reflow soldering.
- Git and Subversion VCS.
- Fluent in English, Russian.

Miscellaneous Experience

Projects – Check them out at *liakhovitch.github.io*!

2023	**Audio effects unit** – PCB in KiCAD, multicore firmware in Rust.
	Embedded security – Found and exploited an embedded Linux vulnerability to save $10,000 worth of end-of-life sensor equipment.
2022	**CAN data logger** – OSU capstone group project for **Hyster-Yale**.
	Kitchen timer – Junior capstone. PCB in KiCAD, firmware in Rust, RTOS. (I later also implemented a similar device with AVR and C)
	LoRA Emergency Radio – Battery-powered, waterproof radios capable of connecting to a smartphone and directly transmitting long-distance messages. Firmware in C.
2019	**Router repurposing** – Added USB ports to a $3 secondhand wireless router, then used a homemade diskless distributed build system to compile Linux and fit it into the 4MB of internal storage.
· · · ·	**Laser Tag** – Extended an existing system with a proximity mine. Firmware in FORTH.
	UAV – Autonomous quadrotor UAV with Linux onboard.

Misc

2020 – 2023	President of OSU Swing Dance Club, instructor for OSU Ballroom Dance Club
2020	$500 bounty for finding a security bug in Google Home appliances.
	Technician-class amateur radio license.