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, 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.