

Anton Liakhovitch

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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.