

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

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|-------------------|---|
| Programming | 📌 Thorough knowledge of C and Rust, some experience with C++, Python, Matlab. |
| Microcontrollers | 📌 Experience with AVR, STM32, ESP32/8266, RP2040, others. |
| Operating Systems | 📌 Worked as a Windows and Linux sysadmin, experience with embedded Linux (uBoot, RO root, etc). |
| EDA | 📌 Circuit and PCB design in KiCAD, hand and reflow soldering. |
| VCS | 📌 Git and Subversion. |
| Languages | 📌 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 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)
- 2019 📌 **Router repurposing** – Added USB ports to a \$3 secondhand wireless router, then used a home-made 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 device. 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.