Anton Liakhovitch

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 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 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 claymore 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.