

Anton Liakhovitch

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WORK EXPERIENCE

- Three years as a sysadmin for OSU College of Engineering 2018-21

EDUCATION

- Third Year Oregon State University undergraduate Electrical and Computer Engineering student

SKILLS

- **Operating Systems**
 - Unix-like systems administration (Debian, OpenSUSE, Chrome OS, OpenWRT, etc)
 - Microsoft Windows administration (SCCM, PowerShell, cmd, Active Directory)
 - OSU IT systems (Cyder, SCCM, ethernet patchbays, PXE, Citrix)
- **Software Proficiency**
 - Programming languages: C, C++, Rust, Python, JavaScript, Bash, Forth
 - RTOS, Object-oriented programming, procedural programming, register programming
 - Version control systems: Subversion and Git
 - Build systems: Make and CMake
 - Limited experience with LUA, C#, HTML, CSS, PHP, and Java languages
 - Editors / IDEs: Vim, Eclipse, Visual Studio, Atom, and JetBrains
 - Virtualization software: KVM, QUEMU, Virtualbox, Vmware
 - Graphic design software: Adobe Photoshop and GIMP
- **Hardware Skills**
 - Circuit design, PCB design, and soldering
 - Embedded Systems: AVR, ESP8266 and ESP32, STM32, SOCs (eg, Raspberry Pi)
 - Some experience with CAD, subtractive CNC machining, and 3D printing
 - Computer repair

RELEVANT PROJECTS

- Built a digital kitchen timer from scratch - doing circuit and PCB design, firmware programming, CAD, and CNC machining
- Set up a multi-machine, multi-architecture diskless system with **PXE** and **NFSroot**
- Set up a **distributed build system** on these diskless machines
- Modified a router by soldering a USB flash drive directly to the CPU and compiling **OpenWRT** operating system from source
- Designed, built, and programmed an **autonomous UAV** with Raspberry Pi and Arduino
- Programmed a **gesture recognition** and object tracking demo with OpenCV in Python
- Built a **lighting system**, remotely controlled via TCP/IP protocol (programmed in NodeJS)
- Built a robot and programmed a simple **neural network** for it in C#
- **Reverse-engineered and extended** a laser tag system using STM32 MCU and FORTH language
- **Repaired** numerous computers, including multiple with damaged BIOS and no life signs