LENA VOYTEK

lena@voytek.dev

WORK EXPERIENCE

Canonical - Remote *October 2021 - Present*

Software Engineer - Ubuntu Server

- Open source package maintenance for Ubuntu and Ubuntu Server
- Lead maintenance on MySQL, Valkey, Bind9, OpenVPN, and Django for Ubuntu
- Help to maintain additional packages such as libvirt, swtpm, apache2, and exim4
- Provide patches and features to Debian and upstream projects
- Triage bugs reported by the Ubuntu community

Garmin International - Tucson, AZ September 2020 - October 2021

Embedded Software Engineer

- Elected as software team lead for multiple handheld dog training and tracking products
- Developed firmware for GPS and RF dog devices using Garmin's RTOS
- Developed embedded C++ graphics library for OLED screens
- Created application for validating GPS accuracy on a device

Jacobs Technology - Fort Huachuca, AZ *May 2018 - September 2020*

Embedded, Electrical, and 3D Engineer

- Developed firmware on bare metal and with FreeRTOS for various microcontroller projects
- Developed code for Xilinx Zync FPGA
- Milled aluminum device cases using HAAS and Fryer milling machines
- 3D modeled device cases using Fusion 360
- Created custom PCBs using EagleCAD

EDUCATION

University of Arizona *August 2016 - May 2020*

Bachelor of Science, Electrical and Computer Engineering
Bachelor of Science, Computer Science
Minor, Mathematics

PROFESSIONAL

Ubuntu

Ubuntu Core Developer *August 2023 - Present*
Developer Membership Board Member *June 2025 - Present*

Debian

Debian Developer *August 2025 - Present*
Debian Maintainer *October 2023 - August 2025*

Institute of Electrical and Electronics Engineers (IEEE)

Student Vice President, Treasurer, Security Officer *October 2018 - May 2020*

Phi Sigma Rho - Alpha Kappa Chapter

Vice President of Philanthropy *August 2018 - May 2019*
Director of Professional Development *January 2018 - May 2018*

PROJECTS

Discourse Triage *October 2021 - Present*
Canonical - Remote

- Command line interaction with Discourse forums to get updates on changes
- Written in Python, packaged as a Snap
- `https://github.com/lvoytek/discourse-triage`

Tracking and Training Handheld Dog Device *September 2020 - October 2021*
Garmin International - Tucson, AZ

- Elected software team lead of the project
- Implemented portions of OLED graphics library in C++
- Implemented training commands to collar over 27MHz radio

Implantable Medical Device Middleware Cybersecurity *December 2019 - August 2021*
University of Arizona - Tucson, AZ

- Middleware framework to control secure access to sensors and data
- Interacts with ARM TrustZone secure enclaves and user applications

UAV with Live Video Feed Controlled over a Cellular Network *August 2019 - May 2020*
General Dynamics Mission Systems + University of Arizona - Tucson, AZ

- Built a custom, 1m wide drone
- Used an ESP-32 microcontroller to control drone autonomously and send data to user over LTE
- Created Web-based dashboard for tracking encrypted location and live video feed

Scalable Microcontroller Ultra-Wideband Multilateralization *July 2019 - May 2020*
Jacobs Technology - Fort Huachuca, AZ

- Device for determining exact location in GPS-denied Environment
- Wrote asynchronous time of flight sensing and mesh firmware
- Interacted with Ultra-Wideband transceiver using SPI protocol

GPS + Audio Event Recorder *June 2019 - August 2019*
Jacobs Technology - Fort Huachuca, AZ

- Allows test engineers to mark down events with GPS and I2S Microphone
- Developed firmware in C for Cortex M4 Processor
- Developed PCB for compactly connecting all components

TECHNICAL SKILLS AND QUALIFICATIONS

Programming Languages	C, C++, Go, Rust, Verilog, TypeScript, JavaScript, Python, C#, LaTeX
Software	VS Code, Vivado, LibreOffice, MS Office, Fusion 360, Eagle CAD, Pspice
Operating Systems	Ubuntu, Debian, Arch Linux, Mac OS, Windows
Familiar Architectures	ARM, AVR, MIPS, RISC-V, s390x, x86