
OBJECTIVE: To contribute to the LANDIS-II Foundation.

EDUCATION:

- Portland State University—studying Computer Engineering
 - Hardware Description Language and Prototyping (ECE 351)
 - Microprocessor Interfacing and Embedded Systems (ECE 371/372)
 - Operating Systems (CS 333)
 - Circuit Analysis I & II (ECE 221/222)
- Portland Community College—studied Audio Engineering and Computer Science
Earned: Associate of Science Degree
- Free Code Camp—studying Software Engineering
Earning: Front End Development Certification

TECHNICAL SKILLS:

- Experience with: C, C++, Python, Javascript, Verilog, AVR Assembly, Git, Phoronix

RELEVANT EXPERIENCE:

Portland State Aerospace Society • **Member of Dx-WiFi Capstone team** (Jan. 2016 – Present)
Working on long-range WiFi software for OreSat, Oregon's first CubeSat (miniaturized satellite for space research).

- Implementing a method for streaming live video over UDP using forward error correction.
- Refining an SSH-like shell implemented over UDP with forward error correction to mitigate long-range data losses.

Tektronix • **MECOP Software Development Engineering Intern** (Mar. 2015 – Sept. 2015)
Interned in VPL (Video Product Line), working on design team for a new video measurement product

- Created and executed an SSD file system stress test for the new video measurement product.
- Helped direct way forward for new product server-side software.
- Created "glue-code" app to sit between UI and hardware layers to allow for specific development and for trade show demos.

Alpha Broadcasting • **Electrical Engineering Intern** (Summer 2011)
Interned with the Chief Engineer for Portland's KXL, KUFO, KXTG, KUPL, KINK, and KBFF radio stations.

- Studied radio wave propagation and AM radio transmission theory.
- Worked with mission-critical Linux devices controlling signal routing and station automation.

OTHER EXPERIENCE:

Bollywood Dreams LLC • **Technical Director** (Jan. 2010 – Present)
6+ years of experience managing sound systems, lighting, and AV installations

Technical Duties:

- Program & execute live sound & lights for events from 50 to 2500 patrons.
- Set up & run mixing consoles, front of house speakers, monitors, microphones, DJ equipment, DMX lighting systems, and video and projection systems. Facilitate equipment use throughout events.

Non-technical Duties:

- Regularly lead constantly changing teams of volunteers.
- Train team members how to run live sound and lighting systems.
- Coordinate performances to adhere to tight timetables.
- DJ, Emcee, and teach dance.

PSU Office of Information Technology • **Helpdesk Technician** (Jun. 2013 – Jan. 2015)
Served as "face" of PSU's technical infrastructure for students and faculty.

- Administrated PSU-owned computers and printers on the PSU network.
- Coached students and faculty as they learned how to use the PSU computer systems.