

# Noah Roberts

(541)-667-0260 | [robertno@oregonstate.edu](mailto:robertno@oregonstate.edu) | [linkedin.com/in/robertsnoah](https://www.linkedin.com/in/robertsnoah) | [www.sohcahnoah.com](http://www.sohcahnoah.com) | [github.com/SohCahNoah](https://github.com/SohCahNoah)

## EDUCATION

### Oregon State University

Expected Jun 2026

*B.S. in Electrical and Computer Engineering, B.S. in Music, Minor in Computer Science, GPA: 3.25*

*Corvallis, OR*

**Awards:** Dean's List, Fall 2025

**Coursework:** Embedded Systems, Digital Signal Processing (DSP), Digital Logic and Design, Hardware Software Interfacing (HSI), Low-Level Programming Languages

## TECHNICAL SKILLS

**Languages:** Python, C#, C/C++, AVR Assembly, MIPS Assembly, VHDL

**Engineering Design Tools:** AutoCAD, MATLAB, Atmel Studio, KiCad, Git

## EXPERIENCE

### Technical Operations Specialist

Jan 2022 – Present

*Oregon State University - Memorial Union*

*Corvallis, OR*

- Operated, configured, and maintained integrated Audio, Visual, Lighting, and Camera systems at one of Oregon State University's premier event venues to support live events, business meetings, conferences, and performances.
- Collaborated directly with clients, event planners, and stakeholders to design and optimize audio and lighting solutions tailored to event requirements and client budget constraints.
- Led AV system integration and modernization efforts utilizing the AVIXA project lifecycle framework, including design, execution, testing and commissioning, and system training.
- Served as team lead responsible for on-boarding and training new staff on building infrastructure, AV systems, safety procedures, and operational best practices, improving team readiness and consistency.
- Authored and maintained technical training and reference material tailored to site-specific systems and workflows.

### ASOSU Student Fee Committee - Budget Liaison

Jun 2022 - July 2025

*Oregon State University - Memorial Union*

*Corvallis, OR*

- Served as a voting member of the Student Fee Committee, responsible for researching, deliberating, and approving allocations from a \$33M+ annual incidental fee budget funding student services, programs, and engagement-focused campus departments.
- Acted as the primary representative to the board for the Memorial Union, directly presenting and defending a \$6M+ operating budget to the committee during formal budget hearings and deliberations.
- Prepared and delivered formal budget presentations and justification materials for upcoming fiscal cycles, translating departmental needs and operational priorities into committee-facing financial and strategic language.

## PROJECTS

### Electrical Arc (Plasma) Speaker | *KiCad, Embedded ICs, DSP, High Voltage, Arduino*

- Designed and implemented a high-voltage electro-acoustic system that converts audio signals into audible sound via plasma arc modulation, integrating electrical, signal-processing, and safety-critical subsystems.
- Applied system-level engineering and design methodology to define requirements, evaluate technical approaches, and balance performance, reliability, and safety in a high-voltage system
- Conducted research and evaluation of power electronics, signal modulation techniques, and control strategies, incorporating industry-standard components and best practices to achieve stable and repeatable system behavior.
- Collaborated within a cross-functional engineering team to develop the system based on defined customer and stakeholder requirements, translating functional goals into technical specifications and design constraints.

## VOLUNTEER AND INDEPENDENT TECHNICAL EXPERIENCE

### Volunteer AV Technician | *Majestic Theatre, Corvallis OR*

2025 - Present

- Operated and supported live audio, lighting, and video systems for theatrical productions and community events, ensuring reliable show execution in a live-performance environment.

### Camera Operator (Freelance) | *Jon Thomson Photography*

2023 - Present

- Supported live production of choir and orchestral performances, assisting with equipment setup, cable runs, and configuration of video equipment prior to events
- Operated cameras during live performances, following production cues to capture musical and conductor-focused shots in real time within a multi-camera environment.