Noah Roberts

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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 Audio, Visual, Lighting, and Camera systems at one of Oregon State University's premier event venues, supporting over 500 live events, business meetings, conferences, and performances each year.
- Collaborated directly with clients, event planners, vendors, 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 life-cycle framework, including design, execution, testing and commissioning, and system training.
- 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, which is 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 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 an engineering team to develop the system based on defined customer 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

- Assisted live production of choir and orchestral performances, including 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.