Blake Aaron Roberts

robeblak@oregonstate.edu | +541.261.5465 | blakeaaronroberts.com | blakeaaronroberts

Objective

To obtain a summer graduate internship to further develop the technical skills necessary to enter industry as an analog and mixed-signal design engineer upon completion of master's degree.

Education

Oregon State University 2023 - Present
Master of Science - Electrical and Computer Engineering
- Focus: Analog Integrated Circuits
- Accelerated Master Platform
- Expected Graduation: June 2025

Oregon State University 2021 - Present
Bachelor of Science - Electrical and Computer Engineering GPA: 3.81
- Minor: Computer Science
- Expected Graduation: June 2024

Chemeketa Community College 2019 - 2021
92 Undergraduate Credit Hours GPA: 4.0

Work Experience

Naked Extracts - Co-Owner, Lab Manager 2014 - 2019
- Developed and organized business structure and obtained OLCC licensure.
- Coordinated construction of laboratory facility according to OLCC guidelines.
- Created high-efficiency standard operating procedures for extraction and isolation of organic compounds.
- Managed team of 10+ employees in laboratory operations.

Various Restaurants - Server, Bartender 2009 - 2014

Passey Advertising - Intern, Web Developer 2006 - 2008
- Interned during third and fourth years of high school. Hired full-time upon graduation.
- Developed full-stack websites for clients using LAMP stack.

Projects

ESP32 Microcontroller Breakout Board

Engineered and assembled a printed circuit board (PCB) for an ESP32 breakout module.

PC Controlled DC Power Supply

Worked with a team to engineer a two-channel, variable voltage, benchtop DC power supply, programmable using SCPI commands via computer interface.

3-Filter Crossover Network

Designed and constructed a three-way crossover network of AC filters to drive a multiple speaker system.

Academic Accomplishments

Engineering Honor Society Officer - Secretary, Tau Beta Pi (Oregon Alpha Chapter) Fall 2023 - Present
Dean's List - Oregon State University Fall 2022
President's List - Chemeketa Community College Fall 2020 - Spring 2021

Skills

General:	Analog Circuit Design, Circuit Analysis, Circuit Optimization, Schematic Design, PCB & IC Layout, Simulation, Modeling, Filter Design, Amplifier Design, Sensitivity Analysis, Documentation, Teamwork, Communication, Problem-Solving, Time Management, Technical Writing, Continuous Learning
Software:	Cadence Virtuoso, KiCAD, MATLAB, SPICE, Quartus Prime, Microchip Studio, Visual Studio Code
Languages:	C, C++, Python, SystemVerilog, AVR Assembly, LaTeX