


AHMAD ALAJMI

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TECHNICAL SKILLS

- Circuit Design & Analysis (Analog & Digital)
- Embedded Systems & Microcontrollers (Arduino)
- PCB Design & Schematic Capture (KiCad)
- Signal Processing & Power Electronics
- Programming: C++, Python, MATLAB
- Testing & Validation: Oscilloscopes, Power Supplies, Multimeters
- Troubleshooting & Debugging Electrical Circuits
- Soldering: Through-hole and surface mount soldering

EDUCATION

Degree(s) Pursuing: Bachelor of Science in Electrical and Computer Engineering

Institution: Oregon State University

Expected Year of Graduation: 2027

- 3.2 GPA

VOLUNTEER & LEADERSHIP EXPERIENCE

Executive Team Member – National Union of Kuwaiti Students (NUKS-USA) (2021–2024)

- **[Responsible]** Led logistics and technical support for virtual and in-person meetings.
- **[Professional]** Managed membership databases and implemented technology solutions for efficient communication.

Event Coordinator – Kuwaiti Students Club (2022–2024)

- Organized and executed student engagement events, increasing participation by 30%.
- **[Collaborative]** Coordinated AV setup and technical support for workshops and presentations.

PROJECTS & EXPERIENCE

Circuit Design & Testing – ECE 272

- **[Proactive]** Debugged circuit designs independently, ensuring full functionality before lab deadlines.
- **[Meticulous]** Conducted voltage measurements and verified connections to prevent design flaws.
- **[Inventive]** Developed an optimized power-efficient voltage regulator, enhancing system stability.
- **[Adaptable]** Modified circuit configurations in response to unexpected performance variations.

Distance Sensor Device – ECE 341 Final Project

- **[Self-Directed]** Designed and implemented a distance sensor system using an ultrasonic sensor and microcontroller for real-time object detection.
- **[Collaborative]** Worked with teammates to integrate signal processing algorithms for improved accuracy.
- **[Responsive]** Refined firmware based on testing feedback, enhancing measurement precision by 15%.
- **[Professional]** Documented circuit design, sensor calibration process, and testing results for future iterations.

Website Development for Kuwaiti Students Club

- Designed and launched a responsive website using HTML, CSS, and JavaScript, improving user engagement by 40%.
- **[Proactive]** Identified user experience issues and implemented features like event registration and contact forms.
- **[Self-directed]** Independently learned and applied advanced web development techniques to enhance functionality.

ObjecTrack Countdown Timer Project ECE 342 Engineering Project, Spring 2025

- Designed and implemented an object-triggered countdown timer using Arduino Uno, LCD display, LED matrix, and VL53L0X distance sensor.
- Programmed embedded C++ code to control timer logic, visual feedback, and auditory alerts.
- Integrated voltage regulation module and developed a custom enclosure to meet engineering requirements for safety and usability.
- Collaborated with a three-person team to test and present the completed system.