

## Fadel Barhum

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### Education:

College Name: Oregon State University, Corvallis, fall 2023-present

Major(s), Minor: (Electrical and Computer Engineering/Mathematics), Aerospace Engineering

Expected graduation date: June 2028

### Technical Skills

**Programming:** Python, C, C++, MATLAB

**Engineering Tools:** Siemens NX, SolidWorks, Multisim, LTSpice, Quartus, Kicad, Keysight ADS

**Hardware/Embedded:** ESP32, Sensors, Circuit Design, PCB Fundamentals

**Other:** Team Leadership, Project Engineering

**Languages:** Arabic (Fluent)

### Project & Academic Experience

- NASA L'SPACE Mission Concept Academy (Virtual) *Aug 2024 – Dec 2024*
  - Served as Mechanical, Thermal, and Lead Electrical Engineer on a lunar rover mission concept
  - Designed and evaluated rover components using CAD tools for performance optimization
  - Collaborated in multidisciplinary teams on mission planning and system design reviews
- ESP32 Accelerometer System Project
  - <https://github.com/barhumf/ESP32-Accelerometer-System.git>
  - Designed and built an embedded system using an ESP32 microcontroller and accelerometer sensor
  - Interfaced sensor data with a microcontroller and displayed real-time output on an OLED display
  - Integrated power regulation and input controls (push button) into the system design
  - Focused on system reliability, signal accuracy, and efficient hardware-software integration

### Experience:

**Proofer** — Mary Jacks Court Reporting, Portland, OR

*June 2021 – June 2023*

- Reviewed and edited legal documents with high attention to detail and accuracy
- Improved document clarity and consistency across reports

### Relevant Coursework

Digital Logic Design • Electronic Circuit Design • Signals & Systems I/II

Electromagnetic Fields & Waves • Data Structures • Computer Networks • Linear Algebra

Probability for Engineers

### Leadership & Activities:

American Institute of Aeronautics and Astronautics(AIAA) —Member

Institute of Electrical and Electronics Engineers(IEEE) —Member

### Awards:

Dean's List — Fall 2023, Summer 2025

### References:

For recommendations see: [www.linkedin.com/fadel-barhum](http://www.linkedin.com/fadel-barhum)