



GERALD WEAVER

INDUSTRIAL AND SYSTEMS ENGINEERING AT LIBERTY UNIVERSITY



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EDUCATION

LIBERTY UNIVERSITY

B. S. in Industrial and Systems Engineering
August 2023 - May 2027

- GPA: 3.74
- Dean's List; August 2023 - Present
- Alpha Lambda Delta Honor Society; August 2023 - Present
- Relevant Coursework:

Analog and Digital Design, Economic Analysis,
Database Analysis and Database Development

LEADERSHIP

- **Eagle Scout**; September 2015 - September 2023
Boy Scouts of America; Bel Air, MD
- **Project Leader; Engineering Missions & Research Club**
January 2025 - Present; Lynchburg, VA
- **Liberty University Converge Leadership Program**;
August 2023 - August 2024; Lynchburg, VA
- **Director of Recruitment - IISE/ASSP Liberty University**;
January 2025 - Present; Lynchburg, VA
- **Administrative Coordinator - Project Management, Liberty University Rocketry**; May 2025 - Present; Lynchburg, VA

TECHNICAL SKILLS

- System & Facilities Design
- Data Analysis
- Linux
- Python | Circuit Python
- C++ | C#
- JavaScript
- VBA
- MATLAB
- Microsoft Power Apps | Excel
- SQL Server Management
- OnShape 3D Modeling

COMMUNITY SERVICE

- **Mount Christian United Methodist Food Drive Volunteer, 2018-2022**

Assisted with the monthly food drive at Mount Christian United Methodist Church, supporting community outreach by organizing and distributing food to those in need.

- **World Help Volunteer, Lynchburg, VA, 2024**

Contributed to global humanitarian efforts by assisting with the packing and sorting of clothing donations at World Help in Lynchburg, VA, ensuring essential supplies reached individuals in need in third-world countries.

WEBSITE

<https://thecodingslab.github.io/GeraldWeaver-s-Website/>

EXPERIENCE

- **Administrative Coordinator & Operations and Communications Coordinator** ; May 2025 - Present

Liberty University Rocketry - Lynchburg, VA: **Optimized** project timelines and **team logistics** using industrial systems engineering principles, ensuring **efficient task completion** and **streamlined workflows**. **Facilitated** clear communication and **precise resource allocation**, while maintaining the Master Schedule and Budget with purchase order submissions and adjustments. **Supported test launches**, driving rocketry **innovation** in national competitions through **process improvement**.

- **Avionics Systems & Software Development Engineer**; May 2025 - Present

Liberty University Rocketry - Lynchburg, VA: **Developed** and rigorously **tested software for rocket avionics systems**, ensuring precise data collection and **robust system control for mission-critical operations**. Collaborated with a multidisciplinary team to **design, debug, and optimize code**, integrating hardware and software to **enhance the performance of sensors and control mechanisms**. Conducted **extensive system testing** to ensure reliability.

- **Software Engineering & Financial Data Analyst Intern**; June - August 2025

Smiths Detection - Edgewood, MD: **Developed software solutions** and analyzed **pricing/cost data** using **Python, SQL, and Excel** to support **service contracts** and **improve margins**. Conducted competitor pricing **research**, created **visualizations**, and presented insights to **stakeholders**. **Collaborated** with the **pricing team** to **optimize processes** and **integrate data-driven solutions**, **enhancing system efficiency** and **strategic decision-making**.

- **Director of Recruitment**; January 2025 - Present

Liberty University IISE/ASSP - Lynchburg, VA: **Directed recruitment** for Liberty University's IISE/ASSP chapter, **organizing membership drives**, events, and outreach to attract over 50 new members and **enhance engagement**. **Created data-driven promotional strategies**, **collaborated** with executives on professional development goals, and **coordinated workshops/guest sessions** to foster inclusive involvement in industrial systems and safety initiatives.

- **Houseman Intern**; June - September 2024

Contemporary Hotel at Walt Disney World - Orlando, FL: Gained experience with **Disney's engineering department**, **learning their operational duties**. Maintained **cleanliness** at Walt Disney World's premier resort by **assisting housekeeping** with stripping rooms and ensuring public area cleanliness, while ensuring **guest room standards were consistently met**.

- **Senior Customer Service Associate**; August 2022 - August 2023

Walgreens - Bel Air, MD: Processed returns and exchanges, **resolved customer issues**, and operated a cash register for **accurate transactions**. Also assisted in **training colleagues**, **instructed new hires**, and managed inventory by stocking shelves and **reporting levels to management**.

- **Sales Associate, Cook**; February 2020 - June 2022

Way Back Burgers - Bel Air, MD: **Resolved customer issues** over the phone, **ensured satisfaction** by providing menu information, and **managed finances with rapid calculations** during closing procedures.

ORGANIZATIONS

- **Engineering Missions & Research Club - Project Leader**; January 2024 - January 2025: The **Engineering Missions and Research Club (EMRC)** at Liberty University is a **student-led organization** within the School of Engineering, **focused on combining engineering skills with research** and a **passion for humanitarian service**.
- **Institute of Industrial & Systems Engineers - Director of Recruitment**; January 2025 - Present: Dedicated to **supporting Industrial and Systems Engineering students** through **professional development** and **community engagement**.
- **Human Powered Rover Competition Team - Previous Safety Lead**; August 2023 - December 2023; **Student-led competition team** within the School of Engineering, focused on **designing, building, and racing human-powered vehicles** as part of the American Society of Mechanical Engineers (ASME) national competition.
- **Liberty University Rocketry - Avionics Software & Systems Engineer Administrative Coordinator**; May 2025 - Present: **Developed and tested software for rocket avionics systems**, ensuring **precise data acquisition** and **reliable system control** to **drive competitive success**. **Managed** project timelines, **coordinated** team logistics, and **facilitated** clear communication, **optimizing resource allocation** and **team collaboration** to **advance innovative rocketry designs** for national competitions.