

# QUENTIN MALLORY II

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## EDUCATION

**The Ohio State University, College of Engineering**  
*Bachelor of Science in Mechanical Engineering*

**Columbus, OH**  
*December 2025*  
GPA: 3.01

### Relevant Course Work

- Finite Element Methods (ANSYS)
- Capstone Project – Torsional Testing Rig for Formula SAE Team
- Vehicle Dynamics
- Mechanical Vibrations

## TECHNICAL SKILLS

- CAD & Design: SolidWorks (parts, assemblies, drawings), basic GD&T
- Analysis & Simulation: ANSYS (FEA), stress/deflection analysis
- Programming & Data: MATLAB, Python, Excel (data analysis, formulas, visualization)
- Testing & Validation: Mechanical testing, experimental setup, documentation
- Manufacturing Exposure: Assembly processes, prototyping, quality documentation
- Engineering Methods: Root cause analysis, test planning, technical reporting

## ENGINEERING EXPERIENCE

### **NavaFlex Incorporated**

*Mechanical Engineering Intern*

**Columbus, OH**  
*May 2025 – Aug 2025*

- Synthesized and processed cathode and anode materials for lithium-based batteries to support prototype energy storage system development.
- Assembled and tested coin and pouch cell batteries, documenting performance metrics and experimental results for energy storage optimization.
- Integrated battery systems with flexible electronic substrates, supporting electromechanical system integration and prototype validation for wearable applications.
- Collaborated in a fast-paced startup environment, gaining hands-on experience in materials engineering, battery technology, and wearable electronics.

## ADDITIONAL EXPERIENCE

### **Columbus Recreation and Parks- Lazelle Facility and Tuttle Park Community Center**

*Recreational Aide & Camp Counselor*

**Columbus, OH**  
*June 2020– Present*

- Supported daily operations in a high-traffic municipal facility by resolving visitor inquiries, coordinating logistics, managing equipment inventory, and maintaining safe, efficient environments through disciplined processes.
- Planned and executed structured programming and special events for diverse age groups, adapting in real time to changing needs while collaborating with internal teams and external partners.

## LEADERSHIP & INVOLVEMENT

### **Omega Psi Phi Fraternity Incorporated- Iota Psi Chapter**

*Keeper of Finance*

**Columbus, OH**  
*April 2022 – December 2024*

- Managed budgeting, procurement, and financial reporting for the chapter, ensuring fiscal responsibility and strategic allocation of resources.
- Oversaw assets and liabilities, applying quantitative and organizational skills to maintain financial accuracy and transparency.

*Active Member*

**Columbus, OH**  
*March 2022– Present*

- Led and participated in service initiatives including educational drives, environmental clean-ups, and large-scale donation efforts, demonstrating strong community engagement and logistical planning.
- Coordinated “Achievement Week” at The Ohio State University, organizing events such as mental health forums and professional development workshops—showcasing leadership, communication, and event execution skills.

### **National Pan-Hellenic Council**

*Director of Finance*

**Columbus, OH**  
*December 2022 – December 2023*

- Managed council-wide budgeting and expense tracking, ensuring fiscal compliance and timely payment processing across member organizations.
- Collaborated in planning and execution of campus-wide events, applying project coordination skills in a diverse, multi-organization setting.