



Sofia Anthony

Instrumentation & Controls Engineer Intern

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STRENGTHS

- ✓ **Organizational Skills**
Juggled multiple tasks simultaneously during capstone projects, consistently meeting deadlines with elegant coordination.
- 💡 **Problem-Solving Ability**
Navigated engineering challenges through creative solutioning, leading to more effective outcomes reflecting team needs.
- 🔗 **Technical Proficiency**
Effective use of programming languages like Python and MATLAB showcases technical growth aiding engineering applications.
- 👥 **Collaboration**
Engaged team members during project discussions, increasing collective input strength, adding perspectives from all participants.
- 🗣️ **Communication Skills**
Shared complex data findings compellingly during research presentations, bolstering clarity among varied audience backgrounds.

SKILLS

<u>Mechanical Engineering</u>		
<u>Energy Systems</u>	<u>Automation</u>	
<u>Python</u>	<u>MATLAB</u>	<u>Data Analysis</u>
<u>Project Management</u>		
<u>System Design</u>	<u>Problem Solving</u>	
<u>Team Collaboration</u>		
<u>Presentation Skills</u>		
<u>Technical Writing</u>		
Workflow Optimization		

SUMMARY

Driven Mechanical Engineering student excelling in energy systems through hands-on projects and research. Eager to contribute to innovative solutions while collaborating with a team. Demonstrated ability in engineering principles and effective problem-solving using programming both independently and in group settings. Defined by strong organizational skills, attention to detail, and a growing proficiency in automation and integration of artificial intelligence within engineering frameworks, actively pursuing knowledge that will enhance project efficiencies.

EDUCATION

Bachelor's Degree in Mechanical Engineering

University of Alabama 🎓 GPA: 3.7 📅 2028 📍 Tuscaloosa, AL

Coursework: Thermodynamics, Fluid Mechanics, Energy Systems, Automation Systems

TECHNICAL SKILLS

- **Programming Languages:** Python, MATLAB
- **Engineering Tools:** AutoCAD, SolidWorks, ANSYS
- **Data Analysis Software:** Microsoft Excel, MATLAB, R
- **Collaboration Platforms:** Microsoft Teams, Slack, Google Drive
- **Project Management Tools:** Trello, Asana, JIRA
- **Automation Tools:** MATLAB, LabVIEW, Simulink
- **Presentation Software:** Microsoft PowerPoint, Prezi, Google Slides
- **Simulation Software:** Simulink, COMSOL, ANSYS Fluent
- **Academic Software:** MATLAB, SolidWorks, MathCad
- **Networking Tools:** Cisco Packet Tracer, Wireshark, Wireshark

EXPERIENCE

Capstone Project Developer

University Project 📅 January 2025 - Present 📍 Tuscaloosa, AL

Technology-focused role centered on developing an automated energy monitoring system. Responsibilities include leading design discussions, troubleshooting, and enhancing data accuracy of energy solutions by integrating MATLAB for solution development.

- Designed an automated energy monitoring prototype, significantly boosting data accuracy.
- Collaborated with peers to devise renewable energy solutions, presenting insights to faculty, stimulating cross-departmental interest.
- Ran extensive testing scenarios to validate systems across various conditions, ensuring performance reliability.
- Implemented advanced data analysis techniques using Excel, which streamlined project tracking procedures.
- Established requirements by engaging local businesses, resulting in project specifications aligned with industry standards.

Research Assistant

University Research Lab 📅 August 2024 - December 2024 📍 Tuscaloosa, AL

Focused on innovative carbon capture technologies as part of a structured research team. Contributed through thorough data handling and analysis using modern tools for improved reporting.

- Assisted in designing experimental setups for cutting-edge carbon capture research projects.
- Utilized Python scripts for efficient data transformation, augmenting reporting capabilities.

Carbon Capture Technologies

User-Centered Design

Experimental Setups

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



- Capstone Project Developer at University Project (1.6 Years)
- Research Assistant at University Research Lab (4 Months)

- Prepared detailed presentations of complex data for ease of understanding during departmental meetings.
- Actively participated in weekly progress meetings, contributing solutions to engineering challenges encountered.
- Improved laboratory efficiency through implementation of systematic equipment tracking methods.

Team Member

Hackathon Project 📅 March 2024 📍 Tuscaloosa, AL

Engagement involved collaborative mobile application development aimed at tracking energy consumption effectively. Gained spotlight for innovation and functionality enhancements through user feedback.

- Built parts of a mobile app for energy monitoring, demonstrating inventive use of programming to solve real-world problems.
- Automated specific calculations to track energy savings efficiently, advancing the app’s utility.
- Fostered collaboration with peers to integrate user-centered design changes, enhancing overall experience.
- Presented the final product to judges, garnering recognition for outstanding concept execution.
- Demonstrated adaptability and initiative through real-time working code modifications based on director recommendations.

LEADERSHIP & AWARDS

- Dean's List, University of Alabama (2024, 2025)
- Winner, University Hackathon (2024)

CERTIFICATIONS

- Python for Everybody Specialization 📅 2026
- MATLAB Onramp 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association (2023 – Present)
- Volunteer, Local Community Clean-Up Initiative (2024)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST