

Sofia Anthony

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

2028
Tuscaloosa, AL

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

SKILLS

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|--------------------------|----------------------|-----------------------|-------------------------------|
| • Mechanical Engineering | • MATLAB | • Problem Solving | • Workflow Optimization |
| • Energy Systems | • Data Analysis | • Team Collaboration | • Carbon Capture Technologies |
| • Automation | • Project Management | • Presentation Skills | • User-Centered Design |
| • Python | • System Design | • Technical Writing | • Experimental Setups |

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.
- 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)

LANGUAGES

- English (Native) • Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST