

Tucker Santiago

☎ (512) 555-1234 ✉ tucker.santiago@email.com 💼 linkedin.com/in/tuckersantiago 📍 Austin, TX 78701

SUMMARY

Resourceful engineering student actively engaged in research and practical projects focusing on energy technology. Demonstrated capability to support operational efficiency while adhering to safety protocols and quality standards. Strong problem solver, effective communicator, and committed team member dedicated to achieving project goals. Seized every opportunity to learn and contribute during academic experiences, ultimately striving for excellence in a dynamic environment.

EDUCATION

Bachelor's Degree in Environmental Engineering
University of Texas at Austin GPA: 3.8
Coursework: Energy Systems, Data Analysis, Environmental Policy, Safety Management

2026
Austin, TX

TECHNICAL SKILLS

- **Programming Languages:** Python, C++, Java
- **Statistical Software:** SPSS, MATLAB, R
- **Energy Management Tools:** SolarLog, EnerTrack, EnergyPlus
- **Lab Equipment:** Oscilloscope, Multimeter, Spectrophotometer
- **Project Management Tools:** Trello, Asana, Gantt Charts
- **Data Visualization Tools:** Tableau, Microsoft Power BI, Google Data Studio
- **Communication Platforms:** Microsoft Teams, Zoom, Slack
- **Documentation Tools:** Microsoft Word, Google Docs, Confluence
- **Presentation Software:** Microsoft PowerPoint, Prezi, Canva
- **Compliance Standards:** OSHA, ISO 14001, EPA Regulations

SKILLS

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|-----------------------------------|-----------------------|-----------------------------------|-------------------------|
| • Energy Systems Analysis | • Technical Reporting | • Quality Control | • Administrative Duties |
| • Data Analysis and Visualization | • Project Management | • Basic Maintenance Tasks | • Communication Skills |
| • Safety Protocol Compliance | • Material Handling | • Regulatory Standards Compliance | • Hands-On Experience |
| • Team Collaboration | • Equipment Operation | • Log Keeping | |

EXPERIENCE

Research Assistant
University Research Lab

January 2026 - Present
Austin, TX

Contributed significantly to advanced projects involving energy efficiency technologies, aimed at optimizing operational costs and promoting alternative energy solutions within academic settings. Played essential role in data collection, analysis, and ensuring safe laboratory practices.

- Conducted comprehensive experiments that explored innovative energy solutions, demonstrating critical thinking skills.
- Utilized statistical software tools for precise evaluation of energy systems, facilitating informed discussions on findings.
- Collaborated seamlessly with faculty and peers, effectively communicating insights through compelling presentations to drive environmental awareness.
- Maintained lab equipment, prioritizing adherence to established safety protocols that ensured a productive work environment.
- Compiled detailed reports documenting processes and outcomes to foster future research opportunities.
- Participated in workshops that enhanced knowledge of emerging trends in energy management, expanding professional expertise.

Capstone Project Developer
Student Innovation Lab

September 2025 - December 2025
Austin, TX

Led the design and implementation of a prototype energy monitoring system, effectively bridging technical innovation with community needs to enhance sustainable living practices in homes. The initiative underscored leadership capabilities while enhancing collaboration among diverse groups.

- Oversaw a multifunctional team focused on creating an efficient energy usage model, synthesizing technical proficiencies with entrepreneurial spirit.
- Employed Python programming and Arduino tools successfully to build functional prototypes that addressed real-world user challenges.
- Presented fundamental project outcomes to industry professionals, garnering accolades for outstanding creativity and practical application.
- Facilitated iterative user testing sessions, harvesting valuable feedback that refined both functionality and user experience.

- Streamlined project management efforts by coordinating timelines and workflows, ensuring all deliverables surpassed required milestones.
- Crafted a comprehensive project dossier, encapsulating methodologies, results, and strategic recommendations for future iterations.

LEADERSHIP & AWARDS

- Dean's List (2024, 2025)
- Scholarship for Excellence in Engineering Studies (2025)

CERTIFICATIONS

- Certified Energy Manager  2025
- First Aid Certification  2025

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association (2025 – Present)
- Volunteer, Campus Sustainability Initiative (2024 – Present)

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST