



Tucker Santiago

Instrument Technician - Intern

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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.

STRENGTHS

- 💡 **Proactive Learner**
Sought new instructional experiences like workshops, consistently expanding my skill set in energy management and reporting. This eagerness fosters continuous improvement.
- 👥 **Collaboration**
Worked closely with cross-disciplinary teams, integrating varied expert perspectives that led to innovative energy solutions and enriched learning experiences.
- ⬆️ **Adaptability**
Fluidly adjusted approaches during project development, responding positively to feedback which bolstered functionality and outreach impact. Success stemmed from agility.
- ⚙️ **Technical Problem Solver**
Engaged in hands-on troubleshooting, using analytical thinking to overcome obstacles in experimental setups. Skills nurtured through sustained practice experience.
- 💡 **Communication Skills**
Effectively articulated research findings via presentations to diverse audiences, ensuring clarity and relevance while fostering understanding and interest.

SKILLS

Energy Systems Analysis

Data Analysis and Visualization

EDUCATION

Bachelor's Degree in Environmental Engineering

University of Texas at Austin 🎓 GPA: 3.8 📅 2026 📍 Austin, TX

Coursework: *Energy Systems, Data Analysis, Environmental Policy, Safety Management*

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

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.

- Team Collaboration
- Technical Reporting
- Project Management
- Material Handling
- Equipment Operation
- Quality Control
- Basic Maintenance Tasks

Log Keeping Administrative Duties

Hands-On Experience

English Native

Spanish Proficient



- Research Assistant at University Research Lab (7 Months)
- Capstone Project Developer at Student Innovation Lab (3 Months)

- 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.

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

- Certified Energy Manager 📅 2025
- First Aid Certification 📅 2025

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

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

AVAILABLE ON REQUEST