

Travis Powers

Advanced Manufacturing Engineering Intern

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STRENGTHS

-  **Collaborative Problem-Solving**
Facilitated impactful teamwork on technical projects, often becoming a go-to person for peers needing assistance.
-  **Innovation Adaptability**
Adjusted quickly to evolving requirements during projects, leading creative brainstorming sessions that sparked original ideas.
-  **Technical Communication**
Effectively articulated complex technical information clearly, making it accessible for teams with varying expertise levels.
-  **Research-Driven Methodologies**
Employing analytical techniques to interpret lab results meaningfully was crucial in reinforcing solid scientific evidence in presentations.
-  **Safety Compliance Focus**
Prioritized adherence to safety standards consistently, instilling confidence within teams regarding project viability and management.

SKILLS

- Process Improvement
- Equipment Performance Analysis
- Technical Documentation
- Team Collaboration
- Project Management
- Safety Compliance Data Analysis
- Innovative Design Problem Solving
- Research Methods
- Lab Equipment Usage
- Streamlining Procedures
- Effective Communication

SUMMARY

Aspiring Chemical Engineering student committed to enhancing semiconductor processes through analytical problem-solving. Developed skills in standardizing procedures and improving equipment performance during academic projects. Hands-on experience collaborating with peers on innovative solutions that streamline operational reliability, alongside state-of-the-art methodologies for identifying production issues. Eager to apply knowledge in a full-time internship role at Tech Innovations Inc., contributing positively to the engineering team while pursuing continuous learning and professional growth. Future-driven individual excited about shaping advancements in the semiconductor industry.

EDUCATION

Bachelor of Science in Chemical Engineering
Syracuse University  GPA: 3.0  2027  Syracuse, NY
Coursework: Thermodynamics, Fluid Mechanics, Materials Science, Semiconductor Fabrication

TECHNICAL SKILLS

- Software Tools:** MATLAB, AutoCAD, LabVIEW
- Methodologies:** Lean Manufacturing, Six Sigma, Statistical Process Control
- Laboratory Equipment:** Spectrometers, Microscopes, Oscilloscopes
- Fabrication Techniques:** CVD, PVD, Etching
- Younger Design Tools:** SolidWorks, ANSYS, COMSOL Multiphysics
- Collaboration Platforms:** Trello, Asana, Microsoft Teams
- Presentation Tools:** PowerPoint, Google Slides, Prezi
- Data Visualization Software:** Tableau, Excel, Python Libraries
- Quality Management Systems:** ISO 9001, TS 16949, AS9100
- Health and Safety Standards:** OSHA Regulations, EPA Standards, NFPA Codes

EXPERIENCE

Process Improvement Developer
University Project  January 2026 - August 2026  Syracuse, NY
Engaged in process improvement initiatives within semiconductor fabrication, focusing heavily on enhancing equipment performance and reliability. Collaborated effectively with a dynamic team, employing technical skills to standardize procedures and share research findings with faculty.

- Analyzed various semiconductor production processes, proposing innovative enhancement strategies for performance optimization.
- Implemented standardized operating procedures across different equipment types, resulting in seamless project transitions.
- Researched and reviewed variability-reducing recovery procedures, mitigating delays by improving response time during testing.
- Presented key project outcomes to academia, highlighting procedural improvements and strategic recommendations for ongoing enhancements.
- Ensured safety compliance throughout all project stages, fostering a secure and efficient research environment.
- Built effective communication channels within teams to facilitate collaboration and nurture an atmosphere of shared success.

Materials Science Research Assistant
University Research  September 2025 - December 2025  Syracuse, NY
Assisted researchers focused on new materials in semiconductor applications, contributing significantly to experimental design and data analysis efforts. Supported collaborative presentations, effectively refining organizational and teamwork skills.

Prototype Development

Performance Metrics

LANGUAGES

English Native

MY CAREER



● Process Improvement
Developer at University Project
(7 Months)

● Materials Science Research
Assistant at University Research
(3 Months)

- Regulated laboratory protocols ensuring accurate measurement and documentation of material properties under diverse conditions.
- Participated actively in developing presentation materials featuring experimental results for a high-profile university symposium.
- Maintained organized documentation of experiments, securing integrity which encouraged reproducibility of results for future studies.
- Facilitated weekly strategy sessions with team members for cohesive progress tracking and enhancement of research strategies.
- Diligently upheld all lab safety standards, promoting an environment centered around health and security during experiments.
- Leveraged prior knowledge of materials science to significantly support ongoing research endeavors.

Team Leader - Semiconductor Solutions

Hackathon Project 📅 March 2026 📍 Syracuse, NY

Led a motivated team through quick-paced challenges aimed at finding pioneering solutions for pressing semiconductor issues; leveraged innovative thinking and functionality-focused design to prototype game-changing systems.

- Guided team in rapid prototyping of devices for real-time performance metrics monitoring, emphasizing user-centric feedback loops.
- Coordinated group efforts efficiently under tight deadlines, implementing task prioritization to accelerate completion rates.
- Demonstrated leadership by outlining project objectives clearly and facilitating robust discussion around development iterations.
- Documented comprehensive reports detailing methodologies and distinctive findings central to addressing construction problems.
- Designed presentations that resonate well with diverse audiences, leading to recognition from judges for creativity in execution.
- Fostered an engaging team environment, maximizing group dynamics to boost collective problem-solving capabilities.

LEADERSHIP & AWARDS

- Dean’s List, Syracuse University - Fall 2025
- First Place, University Engineering Challenge - 2026

CERTIFICATIONS

- Certified in Process Safety Management (PSM) 📅 2026
- Lean Six Sigma Yellow Belt 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Chemical Engineering Society - 2025-Present
- Volunteer Tutor, Math and Science Tutoring Center - 2025-Present

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST