

Jaxon Cochran

Manufacturing Engineering Intern

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SUMMARY

Aspiring aerospace engineer committed to building a successful career through hands-on experience in manufacturing and quality control. Focused on continuous improvement, safety standards, and Lean Six Sigma principles within educational projects. The foundation built through collaboration on diverse engineering initiatives and active participation in competitions fosters a proactive mindset geared toward operational excellence. Engaging with classmates and faculty alike ensures constructive feedback shapes learning outcomes. Eager to bring fresh ideas and dedication to AeroTech Innovations as part of a talented team leading the charge in technological advancements for the future of flight.

EDUCATION

Bachelor of Science in Aerospace Engineering

University of Albany 🎓 GPA: 3.0 📅 2027 📍 Albany, NY

Coursework: Dynamics, Manufacturing Processes, Thermodynamics, Materials Science

TECHNICAL SKILLS

- **Manufacturing Software:** AutoCAD, SolidWorks, CATIA
- **Analysis Tools:** Minitab, MATLAB, Excel
- **Project Management Tools:** Trello, JIRA, Microsoft Project
- **Communication Platforms:** Slack, Microsoft Teams, Zoom
- **Engineering Standards:** ASME, ISO, ASTM
- **Research Techniques:** Experimental Design, Statistical Sampling, Data Collection
- **Safety Protocols:** EHS Standards, OSHA Regulations, Risk Management Plans
- **Presentation Software:** Microsoft PowerPoint, Prezi, Google Slides
- **Simulation Tools:** ANSYS, COMSOL, MATLAB
- **Reporting Tools:** Tableau, Crystal Reports, SAP

SKILLS

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|---------------------------|---------------------------|-------------------------|-------------------------------|
| • Lean Manufacturing | • Project Management | • Data Analysis | • Health & Safety Initiatives |
| • Six Sigma Methodologies | • Technical Communication | • Prototype Development | • Product Integration |
| • Quality Control | • Root Cause Analysis | • Process Improvement | • Cost Reduction |
| • Statistical Analysis | • Safety Standards | • Risk Assessment | • Continuous Improvement |

EXPERIENCE

Manufacturing Engineering Intern

University Project 📅 January 2026 - Present 📍 Albany, NY

- Focused on various manufacturing process projects enhancing collaboration skills while working closely with peers and mentors. The role primarily encompassed learning complex assembly systems in a dynamic environment aligned with industry trends.
- Developed comprehensive understanding of manufacturing processes by engaging in capstone project centered around aerospace components.
 - Designed prototype assembly line using Lean principles to boost efficiency while minimizing waste across all phases.
 - Conducted root cause analyses and risk assessments which were pivotal in maintaining strict quality standards during production.
 - Collaborated on statistical process controls improving quality assurance across multiple project simulations.
 - Presented project outcomes and enhancements to experts, gaining valuable feedback used in redesign efforts.
 - Optimized project designs reflecting insights from supervision, resulting in significantly refined prototypes.

Engineering Technology Developer

Course Project 📅 September 2025 - December 2025 📍 Albany, NY

- Contributed to efforts integrating cutting-edge technologies into established manufacturing setups. Interaction with peers fostered knowledge sharing and innovative problem-solving related to our project's objectives.
- Researched and applied Six Sigma methodologies to streamline inefficient workflows and enhance productivity.
 - Led documentation efforts compiling project findings, creating compelling visuals to effectively communicate technical concepts.
 - Participated in group discussions that shaped project strategies and objectives, fortifying overall team accomplishments.
 - Drafted extensive reports illustrating methodologies, earning recognition and praise from disciplinary instructors.
 - Improved communication across teams through timely status updates shared with stakeholders, instilling transparency.

- Applied critical analysis skills in peer reviews, leading to enhanced project clarity and better outcomes.

Aerospace Systems Research Assistant

Academic Research 📅 September 2024 - May 2025 📍 Albany, NY

Engaged actively in research activities directed towards advanced manufacturing technologies responsible for promoting innovation in aerospace. Collaborating closely with faculty sharpened analytical abilities through data interpretation and methodological refinement.

- Conducted experiments focusing on material performance, delivering vital support to ongoing aerospace research.
- Analyzed experimental datasets, synthesizing key findings presented at departmental meetings enhancing collaborative discussions.
- Worked collaboratively with faculty refining research methods and optimizing data collection strategies for better results.
- Exhibited adaptability by responding positively to feedback during evaluations ensuring continuous personal development.
- Showcased findings through presentations, contributing to broader academic discussions about technology applications.
- Extracted valuable lessons from experiences enhancing capacity to tackle complex engineering challenges post-graduation.

LEADERSHIP & AWARDS

- Dean's List (2025)
- First Place, Engineering Design Competition (2025)

CERTIFICATIONS

- Lean Six Sigma Green Belt Certification 📅 2026
- OSHA 30-Hour General Industry Certification 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, University Aerospace Engineering Club
- Participant, Annual Engineering Hackathon

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST