

Legend Callahan

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SUMMARY

Enthusiastic Entry-Level Manufacturing Engineer with a Bachelor's degree in Mechanical Engineering and relevant manufacturing experience. Operated advanced manufacturing technologies, specifically cold spray processes, ensuring top-notch accuracy and efficiency on the production floor. Actively engaged in enhancing workflows while prioritizing safety and quality standards. Collaborated effectively with cross-functional teams to optimize engineering solutions for customer projects. Eager to contribute innovative strategies that drive success within dynamic engineering environments, making lasting improvements in operational efficiency and customer satisfaction.

EXPERIENCE

Manufacturing Engineering Intern June 2025 - August 2025
University Project *Austin, TX*

- Worked as a Manufacturing Engineering Intern focused on optimizing workflows and assisting in product design for aerospace applications. Collaborated closely with team members on engineering methodologies and applied problem-solving skills to enhance project outcomes while gaining valuable hands-on experience.
- Developed engineering processes for a capstone project aiming to streamline manufacturing functions at a local aerospace company.
 - Collaborated with peers using SolidWorks for prototype design, resulting in a tangible model ready for initial testing.
 - Conducted thorough root cause analysis for challenges faced, implementing effective solutions that boosted simulation efficiency by 15%.
 - Presented technical findings during project meetings, enhancing both verbal communication and engagement with faculty mentors.
 - Documented detailed Standard Operating Procedures (SOPs) aligned with ISO 9001 quality standards for the engineering project.
 - Gained practical exposure operating CAD/CAM software while also familiarizing with ERP systems through academic labs.

Research Assistant September 2024 - May 2025
University Research Lab *Austin, TX*

- Engaged as a Research Assistant with emphasis on additive manufacturing technologies, exploring cold spray techniques suitable for various applications. Assisted faculty in executing experiments while meeting procedural safety requirements and collaborated in generating publishable research findings.
- Supported cutting-edge research initiatives within the realm of additive manufacturing technologies focusing on cold spray applications.
 - Operated various advanced manufacturing equipment while ensuring compliance with all applicable safety protocols.
 - Teamed up with faculty for data collection and analysis, leading to contributions in two published papers in respected engineering journals.
 - Produced meticulous documentation and presentations that illustrated research objectives and findings, reinforcing effective communication.
 - Participated actively in continuous improvement dialogues, applying Lean methods to optimize laboratory procedures.
 - Attended workshops enhancing knowledge of quality management systems encompassing key ISO standards.

LEADERSHIP & AWARDS

- Dean's List, University of Texas at Austin, 2024-2026
- First Place, Engineering Design Competition, 2025

EDUCATION

Bachelor of Science in Mechanical Engineering 2026
University of Texas at Austin GPA: 3.8 *Austin, TX*
Coursework: Thermodynamics, Fluid Mechanics, Materials Science, Control Systems

CERTIFICATIONS

- Certified SolidWorks Associate (CSWA)  2026
- Lean Six Sigma Green Belt  2026

TECHNICAL SKILLS

- Design Software:** SolidWorks, AutoCAD, CATIA
- Manufacturing Processes:** Cold Spray, Additive Manufacturing, CNC Machining
- Analysis Techniques:** Finite Element Analysis, Root Cause Analysis, Process Optimization
- Engineering Standards:** ISO 9001, AS9100, ASTM Standards
- Quality Methodologies:** Lean, Six Sigma, Statistical Process Control

- **Documentation Tools:** Microsoft Office Suite, Confluence, Miro
- **Project Management Tools:** Asana, Trello, Microsoft Project
- **Data Analysis Tools:** MATLAB, Excel Analytics, Tableau
- **Communication Platforms:** Slack, Zoom, Microsoft Teams
- **Manufacturing Equipment:** Cold Spray Machines, CNC Routers, 3D Printers

SKILLS

- CAD/CAM Software
- ISO 9001 Standards
- Additive Manufacturing
- Manufacturing Engineering
- ERP/MRP Systems
- Analytical Problem Solving
- Root Cause Analysis
- Quality Management
- Lean Manufacturing
- Team Collaboration
- Process Documentation
- Continuous Improvement
- Six Sigma
- Cold Spray Applications
- Safety Protocols

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association, 2023-2026
- Volunteer, STEM Outreach Program, 2023-2026

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST