

Eleanor Hodges

Textile Process Engineer II

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SUMMARY

Driven Textile Process Engineer passionate about enhancing manufacturing efficiency and safety. Over four years of hands-on experience in process improvement and automation, focusing on statistical analysis to guide insights that inform critical changes. Notable success includes spearheading initiatives that improved safety metrics and developed compliance documentation for procedures. Proven collaborator committed to fostering teamwork across departments. Eager to contribute expertise to implement innovative solutions at Collins Aerospace, ensuring excellence in textile processing.

EXPERIENCE

Textile Process Engineer

Innovative Textiles Solutions 📅 June 2024 - Present 📍 Colorado Springs, CO

As a Textile Process Engineer, managed the optimization of processes through continuous improvement strategies. Oversaw the installation and modification of textile machinery, directly impacting operational efficiency. Monitored process parameters while conducting statistical analyses to identify trends that led to impactful corrections and enhancements.

- Led initiatives boosting safety metrics by 15% through proactive monitoring.
- Coordinated equipment modifications, ensuring alignment with stringent standards.
- Drove data analysis, leading to a 20% reduction in production downtimes.
- Crafted and updated precise documentation supporting compliance efforts.
- Partnered with maintenance teams to swiftly resolve technical issues.
- Facilitated training sessions for new hires, promoting a culture of safety and excellence.

Process Engineer

NextGen Manufacturing 📅 March 2022 - May 2024 📍 Aurora, CO

Managed a dynamic role as a Process Engineer focused on elevating operational workflows. Contributed significantly to large-scale project management aimed at modernizing manufacturing technology. Collaborated cross-functionally to improve overall product quality while reinforcing compliance with health and safety regulations.

- Executed a \$1M project to enhance textile machinery capacity and reduce waste.
- Implemented CORE initiatives achieving a measurable uplift in process quality.
- Helped develop MES/ERP systems, boosting operational reporting clarity.
- Communicated key process data effectively with stakeholders to drive decisions.
- Conducted regular audits, maintaining adherence to Process Safety Management protocols.
- Collaborated with multidisciplinary teams to bring innovative improvements to challenges.

Manufacturing Engineer

Tech Innovations 📅 January 2021 - February 2022 📍 Boulder, CO

Focused on dissecting and refining manufacturing processes in a fast-paced setting, leveraging statistical methods for decision-making. Engaged actively with engineering teams to enhance equipment designs. Ensured regulatory compliance through thorough documentation practices.

- Identified inefficiencies, implementing improvements that benefited productivity.
- Developed materials enriching employee safety training and process understanding.
- Utilized data analysis to support strategic planning efforts.
- Participated in sustainability projects aligning business initiatives with eco-friendly goals.
- Maintained detailed reporting frameworks ensuring industry standard compliance.

LEADERSHIP & AWARDS

- Certified Manufacturing Engineer (CMfgE), obtained in 2022.
- Recipient of the Innovative Excellence Award from Innovative Textiles Solutions in 2025.

EDUCATION

Bachelor of Science in Engineering

University of Colorado Boulder 🎓 GPA: 3.7 📅 2021 📍 Boulder, CO

Coursework: Manufacturing Processes, Statistical Analysis, Automation, Systems Design

CERTIFICATIONS

- Certified Manufacturing Engineer (CMfgE) 📅 2022
- Six Sigma Green Belt Certification 📅 2023

TECHNICAL SKILLS

- **Manufacturing Systems:** Lean Manufacturing, Kaizen, Total Productive Maintenance
- **Statistical Tools:** SPSS, Minitab, Excel
- **Automation Technologies:** PLC Programming, SCADA Systems, Robotics
- **Quality Assurance Standards:** ISO 9001, ISO 14001, ANSI Standards
- **Process Analysis:** Root Cause Analysis, Fishbone Diagram, FMEA
- **Safety Protocols:** OSHA Guidelines, PSM Standard, Risk Management
- **Documentation Methods:** SOP Writing, Quality Manuals, Compliance Reporting
- **Training Techniques:** Workshop Facilitation, Training Materials, One-on-One Coaching
- **Technical Communication:** Report Writing, Presentation Skills, Stakeholder Engagement
- **Team Collaboration Tools:** Microsoft Teams, Asana, JIRA

SKILLS

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|------------------------|-----------------------------|----------------------------------|--------------------------|
| • Statistical Analysis | • Safety Compliance | • Documentation Standards | • Safety Metrics |
| • Process Optimization | • Equipment Troubleshooting | • Cross-Functional Collaboration | • Production Efficiency |
| • Project Management | • Continuous Improvement | • Training Development | • Operational Strategy |
| • MES/ERP Systems | • Data Interpretation | • Regulatory Compliance | • Machinery Installation |

PROFESSIONAL AFFILIATIONS

- Member of the Society of Mechanical Engineers, contributing to ongoing professional development.
- Volunteer for local educational initiatives promoting STEM among youth.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST