JESSICA THORNTON

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SUMMARY

Materials and process engineer with 4 years in aerospace structures, writing material specifications and process specifications for composites, adhesive bonding, sealants and metal finishing. Supports 2 production lines and the supplier base, qualifying materials and resolving shop floor defects. Works well with design, quality and suppliers, with clear technical writing.

SKILLS

- Material Specifications
- Process Specifications
- Composites
- Adhesive Bonding
- Material Qualification
- Metal Finishing
- Nadcap
- Root Cause Analysis
- Technical Writing
- Communication Skills

EXPERIENCE

Materials and Process Engineer

Prairie Wind Aerostructures • Wichita, KS

05/2023 - Present

M&P engineering group at a fuselage and wing component supplier with 2,000 employees.

- Own **35** material specifications and process specifications for composites, adhesive bonding, sealants and primers.
- Qualify 6 alternate materials with design and supply chain, saving $420,000 a year with no strength loss.
- Resolve porosity, disbond and coating adhesion defects on the shop floor, lowering rework hours by 30%.
- Review supplier test reports and process audits for 15 chemical processing and bonding suppliers each year.
- Create bond prep and sealant training for 60 technicians, backed by clear technical writing in each work instruction.

Manufacturing Engineer

Air Capital Precision Parts • Wichita, KS

06/2022 - 04/2023

Machining and finishing supplier for aerospace primes.

- Developed anodize, chemical conversion coating and painting work instructions for 50 part numbers.
- Reduced paint thickness rejects from 8% to 2% by changing gun setup and cure checks.
- Supported a Nadcap chemical processing audit that closed with 2 minor findings.
- Authored 10 process sheets for shot peening and passivation flowed down to outside suppliers.

EDUCATION

Bachelor of Science

Iowa State University • Ames, IA • 05/2022

Materials Engineering