Alicia Moreno

Composites Engineer

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SUMMARY

Composites engineer with 5 years in aerospace carbon fiber structures, from ply design and tooling to autoclave cure and ultrasonic inspection. Supports 2 production cells building 40+ part numbers and leads root cause work on porosity and wrinkle defects. Uses CATIA for ply design every day and works closely with design, quality and the shop floor.

EXPERIENCE

Composites Engineer

04/2023 - Present

Wasatch Composite Structures

Salt Lake City, UT

Aerospace composites supplier making carbon fiber fairings, panels and brackets.

- Develop ply layouts and cure cycles for **40+** prepreg part numbers in 2 autoclave production cells.
- Design layup and trim tooling with the tool shop, cutting new part lead time from 14 weeks to 9.
- Lead root cause analysis on porosity and wrinkle defects, lowering ultrasonic inspection rejects from 7% to 2.5%.
- Write manufacturing instructions and material specifications that passed 3 customer source audits.
- Monitor cure data and thermocouple traces from 3 autoclaves, approving every cure record before parts move to trim.

Manufacturing Engineer

06/2021 - 03/2023

Great Salt Lake Advanced Materials

Ogden, UT

Filament winding and resin infusion for industrial pressure vessels.

- Optimized filament winding patterns for 6 pressure vessel sizes, saving 9% in carbon fiber use.
- Ran resin infusion trials on 20 tooling concepts and documented the best process windows.
- Trained 12 technicians on layup, bagging and cure monitoring standards.
- Reduced voids on infused panels by switching to a double-bag setup, cutting panel scrap by 40%.

SKILLS

- Composite Materials
- Prepreg Layup
- Autoclave Curing
- Ply Design
- Tooling Design
- Filament Winding
- Resin Infusion
- Ultrasonic Inspection
- CATIA
- Root Cause Analysis

EDUCATION

Bachelor of Science

05/2021

University of Utah

Salt Lake City, UT

Mechanical Engineering

CERTIFICATES

Certified Composites Technician (CCT)

09/2022

American Composites Manufacturers Association