Raj Malhotra

Senior Manufacturing Engineer

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Summary

Senior manufacturing engineer with 9 years in aerospace structures, leading process development for wing and fuselage assemblies. Specifies tooling, writes build plans and PFMEA reviews, and leads root cause analysis on nonconformances with quality and production. Six Sigma Black Belt who has cut assembly hours 22% on a 30-shipset-a-year program.

Experience

Senior Manufacturing Engineer

04/2021 - Present

Plains Aerostructures

Wichita, KS

Aerostructures supplier with 2,300 employees building fuselage sections and wing assemblies for 4 aircraft makers.

- Lead manufacturing engineering for wing panel assembly, cutting build hours 22% across 30 shipsets a year.
- Specify drill jigs, assembly tooling and automated drilling programs worth $3.4M for a new fuselage section.
- Run PFMEA reviews and root cause analysis on 40 nonconformances a year, cutting repeat defects in half.
- Mentor 4 manufacturing engineers on GD&T, troubleshooting methods and build plan standards for new programs.

Manufacturing Engineer

06/2017 - 03/2021

Sunflower Aviation Systems

Wichita, KS

Business jet interiors and structures manufacturer with 700 employees and sheet metal, composite and paint shops.

- Wrote build plans and work instructions for 120 sheet metal and composite parts, released with zero rework orders.
- Designed 25 holding fixtures in SolidWorks, removing 2 hours of hand fitting from every cabin assembly.
- Led 6 lean manufacturing kaizen events that freed 3,000 square feet of floor space for a new line.
- Analyzed scrap data with Six Sigma tools and cut composite layup scrap from 7% to 3% in 18 months.

Education

Bachelor of Science

05/2017

Wichita State University

Wichita, KS

Mechanical Engineering

Skills

- Manufacturing Engineering
- Tooling
- GD&T
- PFMEA
- Root Cause Analysis
- Lean Manufacturing
- Six Sigma
- SolidWorks
- Troubleshooting
- Communication Skills

Certificates

Certified Six Sigma Black Belt (CSSBB)

06/2020

ASQ

Certified Manufacturing Engineer (CMfgE)

10/2019

SME