SUJITH PAI

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📄 Professional Summary

Motivated Mechanical Engineer with over 3 years of hands-on experience in design, manufacturing, and process engineering.Proven track record of implementing quality improvements, driving cost reductions, and optimizing processes.Strong communication skills with ability to work cross-functionally and deliver results under tight deadlines.Open to work without sponsorship requirements.

Technical Skills: SolidWorks, AutoCAD, CFD (Cradle), MATLAB, ANSYS, Java, HTML, MySQL, MS Word/Excel, ARAMIS

🎓 Education

University of Dayton – Dayton, Ohio, USA
Master of Science in Mechanical Engineering — GPA: 3.7/4.0 (May 2021)

University of California, Irvine – Irvine, California, USA
Bachelor of Science in Mechanical and Aerospace Engineering (May 2019)

💼 Professional Experience

Enstrom Helicopter Corp – Menominee, Michigan
Design / Process Engineer – Dec 2022 – Dec 2024

- Analyzed and optimized helicopter components like heatshield, seating, cabin seals, dampner system and cabin doors for piston and turbine powered helicopters using SolidWorks and CADKey.
- Updated fittings, epoxy and rivet locations to boost production times and quantity produced for both cabin doors as well as the cabin glass.
- Conducted bearing life analysis to evaluate product viability and to ensure compliance to ISO 9001 as well as ANSI standards.
- Upgraded legacy manufacturing drawings to SolidWorks format, improving accuracy and reducing rework.
- Drastically changed Fuselage parts to better pass FAA inspection as well as internal testing.
- Worked in tandem with CNC and sheet metal departments to improve material selection and significantly helped reduce helicopter weight for better mileage and larger cargo capacity.

Byers Engineering – Remote, USA
OSP Design Engineer – Aug 2021 – Nov 2022

- Designed and planned high-speed fiber optic routes for AT&T across multiple U.S. states.
- Boosted project throughput by 18% through workflow optimization for the construction and permitting department .
- Collaborated with CORNING to implement fiber glass technology while maintaining the correct number of terminals and tails for each project.
- Utilized ARAMIS (proprietary AT&T software) to analyze and overlay copper and fiber networks .
- Completed over 50 projects in the state of Michigan to provide new residential and commercial properties with high speed internet.

Canara Springs Pvt. Ltd. – India
Manufacturing Process Engineer – Jun 2017 – Jul 2018

- Operated and mastered industrial machines including saws, mills, lathes and welding systems.
- Led production issue resolution using root cause analysis and 8D methods.
- Reduced scrap waste by 40% through improved QC and corrective actions.
- Implemented a real-time Quality Andon system for faster defect detection.