

RACHAN RAO

PROJECT MANAGER

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SUMMARY

Over 5 years of experience in mechanical design, manufacturing, and project management. Demonstrated expertise in using CATIA V5, SolidWorks, and Autodesk Inventor for 3D modeling and design, and ANSYS and MATLAB for stress analysis and simulations. Proven track record in managing projects using Microsoft Project, Primavera P6, and JIRA, while leveraging SAP ERP and Enovia PLM for process management and product data integration. Adept at applying Lean Manufacturing and Six Sigma methodologies to enhance operational efficiency and reduce waste. Skilled in ensuring product quality and compliance with ISO9001 and AS9100 standards. Capable of leading cross-functional teams, optimizing engineering processes, and delivering high-impact solutions that align with organizational goals.

EDUCATION

Master of Science in Engineering Management
Western New England University

Jan 2023 – May 2024

Bachelor of Engineering in Aerospace Engineering
National Aerospace University

Sep 2013 – Aug 2017

SKILLS

- **Engineering Design:** CATIA V5, SolidWorks, Autodesk Inventor, ANSYS, MATLAB
- **Manufacturing Processes:** CNC Machining, Sheet Metal Design, Composites Design, Lean Manufacturing, Six Sigma
- **Project Management:** Microsoft Project, Primavera P6, JIRA, Power BI, Microsoft Office Suite
- **Quality Assurance:** GD&T, DFMEA, PFMEA, ISO9001, AS9100
- **Software & Tools:** SAP ERP, Enovia PLM, AutoCAD, Minitab, SharePoint
- **Collaboration & Communication:** Microsoft Teams, Zoom, Confluence
- **Engineering Standards:** ASME Y14.5, PART 23, OSHA
- **Analytical Skills:** Python, Statistical Analysis

EXPERIENCE

REDIANT INFOTECH, MO, United States
Project Manager

June 2024 – Current

- Led high-profile projects, including the Airbus A350-1000 modification, managing budgets over \$1 million and coordinating cross-functional teams.
- Developed detailed project plans and schedules using Microsoft Project and Primavera P6, tracking progress and managing risks.
- Utilized JIRA for task management and issue tracking, ensuring timely resolution of project obstacles.
- Implemented Lean Six Sigma methodologies to improve process efficiency and reduce project waste by 20%.
- Monitored project performance using Power BI for data visualization and reporting, delivering insights to stakeholders.
- Managed project documentation, including scope, schedules, and change notices, through SharePoint and Confluence.
- Facilitated regular project meetings and design reviews using Microsoft Teams and Zoom, ensuring alignment with project goals.

DXC TECHNOLOGY, India.

February 2020 – December 2023

Design and Manufacturing Engineer

- Created and maintained 3D models and engineering drawings for fuselage and winglet components using CATIA V5 and SolidWorks.

- Developed manufacturing processes and conducted material planning, applying DFMEA and PFMEA for risk assessment.
- Utilized AutoCAD for detailed 2D drawings and ANSYS for structural and thermal simulations.
- Managed product data using Enovia PLM and integrated with SAP ERP for production planning and inventory management.
- Conducted quality reviews and ensured compliance with ISO9001 and AS9100 standards.
- Led design optimization initiatives using MATLAB for simulation and data analysis, resulting in a 15% increase in product performance.
- Coordinated with production teams to resolve design-related issues, leveraging Microsoft Office for documentation and reporting.

UNIMESH AEROSPACE MANUFACTURING LTD.

February 2018 – January 2020

Project Support Engineer

- Oversaw tier 1 supplier and OEM manufacturing projects, developing detailed process sheets and BOMs using AutoCAD and SolidWorks.
- Designed and tested manufacturing fixtures and tooling, incorporating CNC machining and Sheet Metal Design.
- Utilized SAP ERP for process management, inventory control, and documentation of engineering changes.
- Implemented Lean Manufacturing principles and Kaizen techniques to streamline operations and reduce lead times.
- Managed project schedules and resources using MS Project and conducted regular project status meetings.
- Prepared and presented project reports using Microsoft Office and PowerPoint, providing updates to stakeholders.
- Conducted quality audits and collaborated with shop floor teams to ensure adherence to ISO9001 and AS9100 standards.

PROJECT

Genjet GLJ Rajas

Genser Aerospace & IT Ltd

- Led the design and manufacturing of India's first privately designed business jet aircraft, focusing on fuselage assembly and wing components.
- Managed a development budget of \$1.2 million and a manufacturing budget of \$190,000, achieving project milestones within budget and schedule.

Airbus A350-1000 Modification

Axiscades Technologies

- Executed a modification project for the Airbus A350-1000, including design and implementation of mid-fuselage components with a budget exceeding \$1 million.

CERTIFICATIONS

Six Sigma Green Belt

Project Management Institute, **Jun 2024**

SAP ERP Essentials

LinkedIn Training, **Jun 2024**

Ansys CFX

Soft Engineering Group, **Feb 2017**

Project Management Foundation

Google Inc, **Jun 2021**