

Summary of Experience:

- Senior Stress repair engineer at SG Aerospace, Bangalore. (Mar-2018 to May-2019)
- Technical Lead at HCL Technologies, Bangalore. (Dec-2016 to Mar-2018)
- Senior stress engineer at QuEST Global Pvt. Ltd., Bangalore. (Jul-2011 to Dec-2016)
 - Onsite at Sitec, UK. (Worked on A400M concessions) for one year.
 - Onsite at Airbus, UK. (Worked on A350 concessions) for 4 months.
- Trainee Engineer at Makens Agro products Ltd., Hyderabad for about 7 months.
- Master's Degree in Product Design & Development at N.I.T. Warangal. (2009-2011)

Career History:

Senior Stress repair engineer at SG Aerospace (Sitec, UK), India

1. Static in-service Aircraft Repairs for SA/LR/A380 Wing Structures

Project Description:

- Repair Operator Damage Report Review.
- Design decision assessment and review based in repair feasibility and static strength.
- Static stress calculations justification preparation.

Roles & Responsible : Reviewer, Execution & Report preparation.
Tools : Hand calculations by MS office, Airbus tools.

Technical Lead at HCL Technologies, Bangalore

2. Reactions, COG and Mass calculations of Carrier structure

Project Description:

- Main objective is to find out Reaction forces at lifting points on Screw and scroll chillers using FEA methods.
- Design of Anti vibration mounts for machine to surroundings.

Roles & Responsible. : Tool preparation by VB script & Report preparation.
Tools : Hand calculations by MS office, PARTRAN & NASTRAN.

3. Relatable Bearing life assessment for a washing machine

Project Description:

- Damage assessment and reverse engineering of bearing design.
- L10 life calculations and automation.
- Previous data analysis and comparison with three different washing machine bearings.
- Conclusions and up-gradation on bearing design and assembly aspects.

Roles & Responsible. : Execution, Calculations & Report generation.
Tools : Hand calculations by MS office..

Sr. Engineer, QuEST, Bangalore

Experience in Composite structures:

4. A400M/A350 Wing Concessions & Repairs at On-site

Project Description:

- Static and fatigue justification for the modified or deviated designs due to manufacturing defects and deviations produced on Composite aircraft structure.
- Project particularly dealt with the issues like Delaminations, part thickness variations, undulations, porosity etc., at Wing part manufacturing stage.

Experience in Metallic structures:

5. Static in-service Repairs for SA Wings.

Project Description:

- ODR Static decision assessment and review.
- Static stress calculations justification preparation.

6. LR RETROFIT PROJECT (A330)

Project Description:

- Main object is to prepare Stress dossier for the old deviated repaired parts.
- Revision in stresses & reserve factor with thorough understanding of defect location, Load paths by comparing with old stress data.

7. LR/SA/A380 WING CONCESSIONS

Project Description:

- Stress justification for the modified or deviated designs due to manufacturing defects and deviations produced on an aircraft structure particularly aircraft wing.
- Main object of my team is to assess the stress implications for the deviated design by recalculating stresses, Reserve factor & Fatigue flight cycles.

Roles & Responsible:

- Execution and review.
- Scheduling & allocation of work to a team of 15 members.

Tools & Trainings:

- NASTRAN & PATRAN, CATIA V5 R21.
- AIRBUS COLLECTION PROGRAMS.

Trainee Engineer, Mekins Agro Products Ltd.,

8. Design analysis and optimization of Specific Pallets

Project Description:

- Reverse engineered, performed static, vibrational analysis and generalized the concept.

Technical Publications:

- Published a technical paper on "Controlling of fatigue stress concentration by providing the excess holes in the structure".
- Published a technical concept on "Plastic bending of Beam" in AIRBUS-QUEST Intranet.

Educational Qualification:

- B.Tech in Mechanical Engineering.
- M.Tech in Mechanical Engineering (Product Design and Development).

Personal Details:

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