Chethan P

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Stress Engineer | Graduate Apprentice Trainee in GTRE

Aerospace Structural Stress Engineer with **2+** years of experience working in **Aerospace Sector.**

Technological Skills:

- Ansys Fluent, Hyper mesh, Ansys Workbench, UG NX, Catia V5, Ansys Fluent Meshing, Space claim, Design Modeler, ISAMI, SAP (APD, PAC) MS Office.

PROFESSIONAL EXPERIENCE

Stress Engineer **July-2023- Present**
Capgemini | Bengaluru

- Perform stress analysis for Airbus SA fuselage
- Preparing Non conformance report for Static and fatigue analysis using hand calculation and airbus in house tools

Stress Engineer **May-2022- July 2023**
Quest Global | Bengaluru

- Performed Stress Analysis of Airbus SA (Single Aisle) A320 family
- Structural analysis of Static, Fatigue of Aircraft Wings and Pylon Metallic.
- Extracted Material Data, Geometry Details and Fastener Specifications from part and assembly drawings
- Executed RF calculations such as Bolting, Net Section, Lug analysis using airbus in-house tools.
- Performed Low RF mitigation, low fatigue run using ISAMI
- Preparing Non-Conformance report (NCR) with Static and Fatigue analysis using Classical Hand Calculations

Graduate Apprentice Trainee in Division of ABES **July 2021-May-2022**
Gas Turbine Research Establishment (GTRE) part of DRDO| Bengaluru

➢ **Afterburner System CFD design and Analysis**

- Preliminary Design of V gutter, Strut, Spray Bar configuration
- CFD modelling of Screech holes, Diffuser, Corrugated Liners, Liner cooling Holes.
- Modelling and CDF analysis of Aero foil strut & Diffuser
- Reacting and Non-Reacting Flow analysis of Complete Afterburner.

➢ **Design optimization and Structural analysis of 2D Serpentine Exhaust duct for Unmanned Aerial Vehicles**

- Steady state Thermal and Mechanical Analysis to optimize the duct exhaust to required Aspect ratio.
- Design of Stiffener, Selection of wall materials and Thickness.

Tools Used
CFD- Fluent meshing, Ansys Fluent, Ansys Space Claim
FEM- Workbench Meshing, Ansys Steady state Thermal, Ansys mechanical, Hyper mesh.
Modelling- UG-NX CAD, Ansys Design Modeler, Ansys Space claim
Afterburner Design- 1D calculations using Excel.

EDUCATION

Bachelors in Mechanical Engineering | University of Visvesvaraya Technological University **VTU**
AMC Engineering College (2017 – 2020 October) *CGPA 6.41*

Diploma in Mechanical Engineering | Department of Technical Education **DTE**
Sri Venkateshwara Polytechnic (2013 - 2016) *First Class with Distinction*

Secondary School leaving Certificate | Karnataka Secondary Education Examination Board **KSEEB**
Vivekananda International Public High school (2003-2013) *72 % Percentil*