ROHIT PRAKASH BHOITE

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Career Objective:

Looking for a professional environment which seeks most of my skills and provides better learning opportunity. Would like to handle challenging assignments and give them a better shape through innovative ideas. Ability to apply CAD and CAE skills effectively to design and evaluate the performance and the validation of Mechanical systems.

Summary:

- 5.6 + years of experience in Product Design, Analysis activities for various Aerospace systems with experience in CAD and analysis with ANSYS.
- Good in ANSYS Classic, APDL commands, Solution tool & post processing.
- Finite element Analysis of Gas Turbine Rotating Component (ANSYS Classic).
- 5 + years of experience in Aviation-Aero engine rotating systems & Fatigue analysis.
- Generating technical report & DDR presentation of the projects.
- Good level of expertise for linear static and analysis for metallic components using finite element method.
- Exposure to CAD Applications, Aerospace & Gas turbine technology.
- At present working as FEA Analyst-CAE in Cyient for Client Pratt and Whitney.

Role and Responsibility:

- Perform FEM Analysis as per the customer requirements.
- Co-ordinate, support and understand technical aspects of projects and ensuring technically correct delivery to the customer.
- Verify & optimize the concept by calculations and FEA.
- Initiate quality improvement initiatives to ensure efficiency & performance requirements.

Tools Knowledge

- **Meshing :** HYPERMESH (Good knowledge)
- **Solver :** ANSYS APDL (Good knowledge), RADIOSS (Basic knowledge), OPTISTUCT (Basic knowledge), ABAQUAS 6.1 (Basic knowledge)
- **Modeling :** UG (Basic knowledge), CATIA V5(Basic knowledge)

WORK EXPERIENCE IN DIFFERENT ORGANISATIONS:

1) Organization : Cyient LTD. Hyderabad
   Client : Pratt and Whitney USA
   Designation : FEA/CAE Analyst
   Total Exp : March 2022 to till present

Projects:

Project 1: Break edge oversize on Stg.9 Scallop
Software Used : HYPERMESH, ANSYS Classic
Description : Project involved KT and Life calculation due to Break edge oversize on scallop region. Analysis and Lifing is carried out considering the morphed defect model. Materials, boundary conditions and loading were applied as per the requirement of client. Documentation of FEA results, Excel template was carried out as per the customer requirements.

Project 2: Real Static seal feet study (Clearance issue between Real Static seal and diffuser)
Software Used : HYPERMESH, ANSYS Classic
Description : Project involved the study of frequency, Clearance issue between Real Static seal and diffuser. 2D asymmetric model and 3D model Simulated for loos fit and tight feet End tack off condition subjected to operating speed, pressure, and temperature with actual boundary condition. A complete post processing is carried out along as per the customer requirement.

2) Organization : QUEST Global Engineering.
Client : IHI JAPAN.
Designation : FEA/CAE Analyst
Total Exp : June 2018 to February 2022

Projects:

Project 1: MRB assessment of Fan Disk pinhole
Client : IHI (JAPAN)
Software Used : HYPERMESH, ANSYS Classic
Description : Project involved KT and Life calculation due to design modifications of fan disk. Analysis is carried out considering the new improved customer methods. Materials, boundary conditions and loading were applied as per the requirement of client. Documentation of FEA results, Excel template was carried out as per the customer requirements.

Project 2: Modal Analysis of the LPT Disk and Frequency comparison Between Hot case and cold case
Client : IHI (JAPAN)
Software Used : HYPERMESH, ANSYS Classic
Description : Project involved the study of frequency, comparison between cold/hot case conditions for complete LPT assembly. Simulated the assembly subjected to operating speed, pressure, and temperature with actual boundary condition, performed the speed only analysis. A complete post processing is carried out along with Camp bell diagram as per the customer requirement.

Project 3: Kt calculation of First Stage of turbine disk
Client : IHI (JAPAN)
Software Used : HYPERMESH, ANSYS Classic
Description : FE model morphed in Hypemesh. Material properties and Boundary conditions are applied to the model by using Ansys APDL. Structural analysis is performed for load condition as per customer specification. Evaluate the stress strain and investigate the impact of MRB condition. A complete post processing is carried out as per the customer requirement

Project 4: Bolted joint analysis of stage 1-2 & 3-4 Disks
Client : IHI (JAPAN)
Software Used : HYPERMESH, ANSYS Classic
Description: Simulated the assembly subjected to operating speed, pressure, and temperature with actual boundary conditions, performed speed only analysis and mini mission analysis. Simulated contact between touching surfaces. Post processing involve interference plot and stress plot.

Project 5: Structural analysis of Retainer
Client : IHI (JAPAN)
Software Used : HYPERMESH, ANSYS Classic
Description : Structural analysis is performed for static stress analysis and 10G load analysis to verify retainer would not get disengaged from disk hook groove with 10G load on retainer. Assembly subjected to 10G load. Simulated contact between touching surfaces. Post processing involve interference plot and stress plot.

3) Organization : Indian Institute of Science (IISC Bangalore) – Aerospace Department
Designation : Research associate
Total Exp : 5 Months (November 20117 to April 2018)

4) Organization : Gas Turbine Research Organization,
Bangalore Designation: Graduate Trainee Engineer Total
Experience: 1 Year (August 2016 to July 2017)

Projects:

Project 1: Buckling and Stress Analysis of High Pressure (HP) Compressor Casing
Project 2: Axis symmetrical Analysis of the Ghatak Engine Shaft of a fan rotor
Project 3: Structural Analysis of Inlet Screen Design
Project 4: Kaveri Engine Nozzle Stress Analysis
Tool Used: HYPERMESH, RADIOSS, OPTISTUCT

Education:
- Bachelor of Engineering in Aeronautical Engineering 2015
- Bachelor of Science in Mathematics 2008

Name: Rohit Prakash Bhoite
Gender: Male
Date of Birth: 22 November 1987
Marital Status: Married
Hobbies: Trekking
Nationality: Indian
Language Knowns: English, Hindi and Marathi
Declaration: I Hereby declare that the above given details are true to best of my knowledge and belief

Place: Satara, Maharashtra (ROHIT PRAKASH BHOITE)