

SURAJ R. KARANJIKAR

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Career Objective

To seek a challenging position where I can utilize my technical skills and knowledge for the growth of the organization and acquire expertise through continuous learning and teamwork.

Synopsis

- A goal-oriented individual having **Master's Degree** in Mechanical Design Engineering, looking to pursue a growth oriented and challenging career.
- Good knowledge of Advanced Stress Analysis concepts, Finite Element Analysis Methods, Material Science domain and basics of Mechanical Design & Development process.
- **Paper Published** - "Vibration analysis of Four Stroke Diesel Engine using FFT Analyzer", in International Journal of Engineering and Technology (ISSN:2278-0181), Volume 4, Issue 06, June-2015.
- Represented College Badminton Team at Divisional and State Level tournaments.

Work Experience

- **3dPLM Software (November 2017 – June 2018): Intern in Simulia – Modeling & Workflows Team.**

Description –

- Been working on the activities pertaining to FEA Pre-processing and CAD model preparation & Geometry clean-up methods in the *3DEXPERIENCE* platform.
- Worked on FEA model build activities for different BIW Models from clients like Jaguar Land Rover and Ford.
- Worked on activities related to generating Mesh Quality Report and manually checking Mesh Quality of the Meshed models created through automated algorithm. Prepared reports and presentations on Mesh Quality and related issues to communicate them with software development team.
- Involved in ISD Car model (BIW) build activities pertaining to convert 2D surfaces into thin Part Bodies.
- Majorly worked on different BIW Models for Mid Surface Extraction of Part Bodies.
- Worked on the creation of different Fasteners and Connections for BIW Models using CATIA Fasteners App and then carrying out Modal Analysis to ensure proper Fastening.
- Worked on the creation CAD model from Orphan Mesh.

Academic Background

- **Master of Engineering (Design Engg.)**
Pimpri Chinchwad College of Engineering, Nigdi, Pune. November 2018 8.69
- **Bachelor of Engineering (Mechanical)**
SRES COE, Kopergaon, Maharashtra. June 2015 60.83%
- **Senior & Higher Secondary Certificates**

Academic Projects

- **M.E Project**

Duration: One Year

Title: "Development and Assessment of Cowrie Shell Powder Based Composite Material"

Objective: To evaluate the potential of Cowrie Shells as reinforcing material by investigating the Mechanical Properties of synthesized bio-composite material.

Description: A new Polymer based composite is developed with a goal of using bio-waste materials as a source of raw ingredients for the production of composite materials having advanced mechanical properties.

- **B.E. Project**

Duration: One Year

Title: "Vibration Analysis of Four Stroke Diesel Engine using FFT Analyzer"

Objective: To find out the effect of cooling water temperature on vibrations of water cooled, Four Stroke Diesel Engine.

Description: This Project included the study of basics of FFT Analyzer and finding out the causes of vibrations in a diesel engine; with a major focus on the study of the effect of cooling water temperature on vibrations of Engine.

Domain and Technical Skills

- 3DEXPERIENCE
- CATIA
- Unigraphics NX4.
- Cadian Mech.

Personal Details

Date of Birth : 19/11/1993
Permanent Address : 38, Shastrinagar, Nanded - 431 605.
Languages : English, Hindi and Marathi.

(SURAJ R. KARANJIKAR)