

CURRICULAM VITAE

RAVINDRA VAIRAGKAR

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CAREER OBJECTIVE

To associate myself with an organisation in which I can utilize my technical skills and abilities, as well learn new technologies and grow in a competitive environment.

ACADEMIC QUALIFICATIONS

Masters of Engineering (**Machine Design**), FCRIT, Vashi (Mumbai University), 2014.

Bachelor of Engineering (**Mech. Engg.**), DKTE, Kolhapur (Shivaji University), 2010.

Diploma (**Mechanical Engg.**), GP, Solapur (MSBTE), 2007.

TECHNICAL SKILLS

- ♦ **CAE and CAD Softwares:** - ANSYS12, HYPERMESH11, RADIOSS, MATLAB, SOLIDWORKS15, CATIA V5, NX, TEAMCENTER, AUTOCAD, SOLIDEDGE.
 - Certification course on Hypermesh, Radioss, Hyper view from FINITE TO INFINITE; Dec. 2012
 - Hypermesh:** - Meshing the models (Tria, Quad, Tetra, Hex mesh) for Static Analysis, Modal Analysis using Hypermesh and Deck Preparation for the same.
 - Radioss:** - Perform linear stress analysis, Modal Analysis using Radioss Solver.
 - Certification course on NX, PLM TEAMCENTER from DesignTech Systems Ltd.; July 2014
- ♦ Certification course on “Introduction to Research Methodologies” conducted by IIT, Bombay; July 2012

EXPERIENCE

1. Current – D Y Patil College Of Engineering, Ambi, Talegaon, Pune.
Assistant Professor
June 2018 – Present
 - Subject: Metrology & Quality Control, Computer Aided Machine Drawing (CATIA)
 - Part Modeling and Drafting in CATIA.
2. Recent – Signet Automation Engineers Pvt. Ltd., Warje, Pune
Design Engineer
January 2017 – May 2018
Job Responsibilities:-
 - Design the Lightning Protection System for different industries.
 - Preparation of fabrication drawing of acoustic test cell supporting structure.
 - Worked closely with sales team regarding order.
 - Worked closely with service team regarding installation.
 - Site visit.
3. Previous – Readymix Construction Machinery Pvt. Ltd., Kothrud, Pune
Senior Design Engineer
June 2016 – December 2016

Job Responsibilities:-

- Preparation of GA drawing of Dry Mortar Plant in Solid Edge.
- Part Modeling, Assembly & fabrication drawing of supporting structure for Dry Mortar Plant (Storage Hopper, Belt Conveyor, Screw Conveyor)

4. Marg Conveyors, Bavdhan, Pune

Mechanical Design Engineer

December 2014 – May 2016

Job Responsibilities:-

- Check & Approve the Fabrication drawings.
- Perform the stress analysis on structural frame in Solidwork simulation.
- Optimization of structural frames & trestles of conveyor system.
- Product design of Bulk Material Handling System like Hydraulic Stacker, Belt Conveyors and Steel structures etc.,
- Review the Fabrication, GA & Foundation drawings.
- Maintain the co-ordination between design, manufacturing dept. and site location.
- Preparation of animation (Walk way) of Conveyor system in SOLIDWORKS.
- Involve in Erection, Commissioning & Review meetings.

❖ Kirloskar Pneumatic Co. Ltd., KPCL, Hadapsar, Pune. September 2012 to September 2014, September 2012 to September 2014 Project Trainee

- Preparation of GA drawing of BOP Compressor Layout.
- Preparation of BOP compressor test bed solid model.

(M.E.) project completed on “DESIGN AND DEVELOPMENT OF A VERSATILE TEST BED FOR BALANCED OPPOSITE PISTON RECIPROCATING AIR COMPRESSOR”.

- ✓ Versatile test bed model is designed for various BOP compressors for testing purpose using CATIA V5.
 - ✓ Studied the different BOP compressors, ISO standards and design calculations, different types of stiffeners are used to avoid the resonance. Anti-vibration mounts were used to reduce the amplitude of vibration. The simulation was carried out in ANSYS software. In ANSYS Modal analysis, Stress Analysis and Harmonic analysis was performed to check the stress, deformation, natural frequency and vibration response.
 - ✓ The versatile test bed results were better than existing test bed and it was satisfying ISO standard.
- **S S Industries**, Ganesh Nagar, Shahapur, Ichalkaranji. July 2009 to April 2010 (B.E.) project completed on “PREDICTION OF SHRINKAGE DEFECTS IN CASTING BY USING TRANSIENT THERMAL ANALYSIS”
 - ✓ In this project minimized the shrinkage defects in casting without changing quality of casting by studying temperature distribution in the casting with respect to time.
 - ✓ The minimized shrinkage in the casting was estimated theoretically as well as experimentally. Ansys software was learned. The model was prepared in ANSYS and transient thermal analysis was performed to know the defect. The position of gating system was changed.
 - ✓ The results were showing that the defects were shifted to the fillet area. To remove these defects different trails were taken on casting model. Defects are removed and scrap is also reduced.

PUBLICATION

- **Ravindra Ramesh Vairagkar**, Amol Dhasade, Aqleem Siddiqui; Published paper on “Modal Analysis of Balanced Opposite Piston Air Compressor test bed in Ansys”, in **International Conference on**

NOTEWORTHY ACHIVEMENTS

- Winner in Inter Engineering Diploma Sport in Volleyball.
- Second rank project, “Development of water lifting mechanism” in Diploma.
- Runner up in Inter class Volleyball sport in Diploma.

PERSONAL DATA

- Marital status : Married
- Nationality : Indian
- Languages Known: English, Hindi and Marathi.

DECLARATION

The information provided above is true to the best of my knowledge and belief.

Date:

Place:

VAIRAGKAR RAVINDRA RAMESH