

NIKHIL RAUT M.E Design Engineering

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EDUCATIONAL QUALIFICATIONS:

Examination Passed	Year of Passing	University/ Institution	Class/ Rank	% of Marks/
Secondary	2007	SSC	Distinction	79.23
Higher Secondary	2009	HSC	Distinction	77.00
B.E. Mechanical	2013	Shivaji University, Kolhapur	First Class	60.65
M.E. Design Engineering	2016	Shivaji University, Kolhapur	First Class	62.26
Ph.D.(Mechanical)	Perusing	VTU, Belgavi		

PROFESSIONAL EXPERIENCES:

- Since July 2016:** Working as Assistant Professor in Department of Technology, Shivaji University Kolhapur. Teaching UG students Design Related subjects; Guiding B. Tech students for their major and minor projects.
- June 2015 – July 2016:** Worked as Design Engineer at Kay Bouvet Engineering Ltd, Satara. The list of projects worked on is attached in Annexure I
- August 2014 –December 2014:** Worked as Production Engineer Intern at ToolTech Engineers Pvt. Ltd, Kolhapur. Had Exposure to Fixture Design and Development, Tool wear and Tool Life analysis, Geometric Dimensioning and Tolerance and Machine Programming, machine shop specially on CNC and VMC Machine, also helped in new component development on CNC Turning Machine, familiar with conventional machine, Quality circle activities, handling of Precision Instrument.
- June 2012 –July 2012:** One month Internship at **Mahindra Vehicle Manufacturing Ltd, Chakan, Pune.** Had exposure to prepare bill of material of XUV 500 vehicle variant 8. Prepared full bill of material of XUV 500 variant 8 with overall efficiency of 87% and found one discrepancy.

SOFT SKILL:

CAE Pre-Processing Software	:	ANSYS and HYPERMESH
CAE Analysis-Processing Software	:	ANSYS and HYPERMESH
Design Software	:	Solid Edge, Catia V5 & V6 PLM, NX Cad, Inventor

Certificate course of Ansys, Hyper mesh and NX CAD at Indo German Tool Room, Aurangabad.

Certificate course of Catia V6 PLM 2.0 at Walchand College of Engineering, Sangli in association with Tata Technologies, Pune.

Certificate course of AUTODESK on FUSION 360 and Inventor at Department of Technology, Shivaji University, Kolhapur

WORKING SKILLS:

Capable of multitasking and handling multiple responsibilities

Strong ability to handle the work pressure and complete the task within specified deadlines

Communicating with clients to deliver first time right project and to decrease the effort variance of the project

ACADEMIC ACTIVITIES:

Presented two papers at UG level and one at PG level at national conference.

Member of the Indian Society of Technical Education (ISTE)

ANNEXURE I

JOB RESPONSIBILITIES:

1. Responsible for design and development according to ASME and IS standards
2. Preparing engineering drawings by applying and analyzing GD&T i.e (Stack Up Analysis) according to ASME Y 14.5M
3. Responsible for interpreting design drawings of heavy machinery and suggesting modifications
4. Resolving problems regarding manufacturing drawing and improving manufacturability.

PROJECT HANDLED:

Fuel Machine Service Cart: Client NPCIL

Getting approval of design and drawing calculation of service cart from client.
Coordinating with shop floor regarding the manufacturing.
Preparing As Built Engineering Drawing of Hydraulic piping system.

Test Rig for Launcher: Client R&DE, DRDO

Theoretical calculation of Test Rig setup, according to loading condition given by client.
Preparing 3D model in Solid Edge and did Static Structural analysis and buckling analysis in Ansys Workbench, comparing the results of theoretical and finite element modeling.

Light Water Accumulator D20 storage Tank: Client NPCIL

Prepared as built drawing of D2O tanks according QA report and submitted for approval.

LT Door: Client NPCIL

Static Structural Analysis to reduce the deflection in the door and then changing the design of the door according to results obtained.
Prepared detailed report of the deflection and stress occurred in the door.
Prepare Engineering Drawing of the LT door according to change in the design.
Suggesting locking mechanism for the LT door.

Second Vehicle Assembly Building: Client ISRO

Carried out theoretical calculation of the rotary actuator to find out the actual torque required to displace the platform.
Preparing 3D model in Solid Edge of all the components in the Platform
Checking all the drawing and updating the changes to manufacturing department.

Shapoorji Pallonji: Client SMS Concast

Design and calculation of billet, bloom and round bar inspection system for vizag steel
Preparing Engineering drawing according to the design.

Partition Frame and Under Frame Front Part: RCF, Kapurthala

Preparing engineering drawing according client reference drawing
Preparing plate layout all the component of partition frame and under frame front part
Preparing 3D model of all component using Solid Edge Sheet Metal