

Tanaji Balu Patil

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Career Objective

To succeed in an environment of growth and excellence and earn a job which provides me job Satisfaction and self-development and help me achieve personal as well as organization goals.

Profile Snapshot

- More than **2** years of industrial experience in Design, Development and in CAE departments.
- A dynamic professional with comprehensive experience in new product development, Pre CAE Cad Modeling (NX) and ANSYS Workbench.
- Valuable experiences in project management, control logics and project execution.
- Demonstration and execution in compliance testing like ROPS, FOPS as per ISO standards.
- Hands on experience on New Product Development.
- An excellent and confident communicator with good analytical and problem solving skills, Man power management, project co-ordination, monitoring project & corporate reporting.

Area of Expertise

Research and New Product Development.

Project Management.

SPM's

Cad Modeling-UG NX8.5, Solid Edge (ST9, ST10), AutoCAD

Rig Testing (ROPS and FOPS)

CAE- Ansys Workbench

Instrumentation and Data Acquisition Test Plan Management (Routing, Scheduling, Execution & Monitoring)

Organizational Experience

INTENCE Engineering, Pune (Manufacturer of pharmaceutical Equipment and SPMs)

Designation -

Asst. Manager (Design- Team Leader) (From Aug- 2018 till date)

Functional Area -

Design and Development.

Projects-

1. Remotely Operated Delivery System: - (For Nuclear power corporation ltd. India (NPCIL)).

Purpose-

Remotely Operated ECT inspection of 220 MWe Heat exchanger.

Role: - Project Leader

2. 4 Axis Robot- (For Bhaba Atomic research center (BARC)).

Purpose-

Positioning of camera to capture gamma rays in LADAKH.

Role: - Project Leader

3. Cobalt AR Bundle opening Tool (CABOT) (For Nuclear power corporation ltd. India (NPCIL)).

Purpose-

Removal of retainer ring from bundle assembly to remove cobalt element.

Role: - Project Leader

4. SG Tube ID Cleaning System (For Nuclear power corporation ltd. India (NPCIL)).

Purpose-

Fully automated cleaning system of steam generator tubes.

Role: - Project Leader

5. Cobalt AR dismantling system (For Nuclear power corporation ltd. India (NPCIL)).

Purpose-

Dismantling of cobalt bundle assembly to separate the bundles.

Role: - Project Leader

Overall Role:-

Design and development of SPMs. Overall coordination from beginning to installation.

- Work as a project manager.
- Coordination with customers and suppliers.
- New Product development.
- Designing control philosophy. Close monitoring on control activities.
- Vendor development. Coordination with them.
- Documentation- Design Approvals (IQ, DQ, OQ, P&IDs.), History Dockets, Information and operation manuals, 5S, Standards library.
- Project Management- Close monitoring on all the activities right from sales enquiry to dispatch/installation and commissioning.
- Co coordinating with other departments likes Purchase, manufacturing, quality, accounts etc.

JCB India Ltd. Pune (Constructional Equipment Manufacturer)
 Designation - Graduate Trainee (GAT) (From Aug- 2017 till date)
 Functional Area- Structures and Simulation, Testing.

Overall Role:

- Pre CAE Cad Modeling and Meshing, preparing Weld Model, Preparing Parametric Assembly.
- Static Structural Analysis in Ansys Workbench.
- Design And Development of Test rig and Fixture development for ROPS test, Instruments management on requirements like hydraulic power pack system, actuators, Load cell, hardware and LVDT.
- Responsible for Monitoring & Execution of ROPS & FOPS Testing for earth moving machinery.
- Co coordinating with other departments like APD, Design, Welding, Material control, Procurement etc.
- Benchmarking of Constructional Equipment's.
- ROPS test set up requirements as per ISO 3471, Conducted and coordinated ROPS and FOPS test set up at XP shop, also maintain the documentation requirements as per ISO standards.
- Creates opportunities for personally grow and seeks new ways to improve the business by working on the New technology like CAE analysis, Report Automation, Standard load calculation, Honeycomb Sandwich core Structures Materials.

Kirloskar Pneumatic Co. Ltd.Hadapsar, Pune (manufacturer of Compressors)
 Designation - Mechanical Draughtsman Trainee (Oct. 2010 to Sept. 2011)
 Functional Area- Research and Development (R&D)

Overall Role:

- Modeling, assembling & Drafting of Air & N2 Compressor, HST, Ground support Unit, Designing Canopy, Base Frame, GA Drawing for Compressors in AutoCAD.
- Preparing P & I Diagram, Electric Circuit Diagram, Technical specifications, ECNs, Release Sheets, SBMs and Bill of materials and Drawings.
- Coordination with machine shop, assembly shop.

Internship

Thermax Ltd. Chinchwad, Pune (1 Month)

Involved in the activity of **Boiler** and **Chiller manufacturing** processes like Welding, Rolling, Cutting, Bending etc.

Training-

Ansys Workbench
 Hybrid Welding Technology
 5S and Kaizen.

IT Skills

- Design/Analysis Software : **ANSYS Workbench-Mechanical, UG/NX 8.5,AutoCAD, CatiaV5**
- Applications : **Microsoft Office** (Excel, Word, PowerPoint etc.)
- Others : **Basic :-** eDAQ TCE3.5, CatmanEasy, n-Code.

Project

- Project name: Journal Bearing Test Rig. (B. Tech Final Year)
 Objective: Design and Development of an experimental setup to determine temperature
 And pressure profile of hydrodynamic journal bearing.

Educational Qualification

Sr. No.	Year	Education	Institute	Score
1	2017	B. Tech with a specialization in Mechanical Engineering	Vishwakarma Institute of Technology, Pune	70.56% (Autonomous Institute affiliated with Pune University)
2	2014	Diploma with a specialization in Mechanical Engineering	Sou. Venutai Chavan Polytechnic, Pune	88.84% (MSBTE)
3	2010	ITI with a specialization in Draughtsman Mechanical	Govt. ITI, Kolhapur	77.93% (Autonomous Inst.)
4	2008	SSC board, 10 th std.	MASPPB. M. V. Keloshi Bk, Kolhapur	84.15% (Maharashtra state Board)

Achievements

Won **1st prize** in Prkalp Project Competition. (2017)

Won **Best Outgoing Student Award** at Collage level. (2014)

District Level Topper in **NCTVT** Exam. (2010)

Regional Level Topper in **Trade Test Skill Competition Exam** Held at, Mumbai. (2011)

Awarded By **Best Apprentice Trainee** in KPCL, Pune (2010)

Personal Profile

Date of Birth : 5th June 1992

Gender : Male

Marital Status : Unmarried

Languages Known : English, Hindi, Marathi.

Present Address : R/N 403, Parth Darshan Appartment, Ambegaon Bk, Pune 411041

Permanent Address : At- Keloshi Bk, Tal- Radhanagari, Kolhapur. 416 211.

Declaration

I hereby declare that above-mentioned information is true up to my knowledge & I bear the responsibility for correctness of the above mentioned particulars.

Date:

Place:

(TanajiBaluPatil)