

DHANANJAY ANAND JADHAV

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MECHANICAL DESIGN ENGINEER

PTC Creo 2.0/3.0/4.0, Innovia

- Mechanical designer with extensive experience providing technical design direction on hardware, mechanical products, machine parts and components for global ISO manufacturers.
- Proficient at creating detailed mechanical drawings for piece parts and assemblies from PTC Creo and Autocad. Maximize form, fit and function through meticulous design-model evaluation.
- Backed by advanced skills in DFM (Design for manufacturability) best practices and numerous CAD/CAE/CAM tools.
- Experienced in implementation of ISO 9001-2008 as a **Management Representative**.

Key Skills:

- | | |
|---------------------------------------|-----------------------------------------------|
| ➔ PTC Creo 2.0 | ➔ Solid & Parametric Modeling |
| ➔ Inventor, SolidWorks and AutoCAD | ➔ Geometric Dimensioning & Tolerancing (GD&T) |
| ➔ MATLAB, CATIA, ANSYS, C++. | ➔ Design for Manufacturability (DFM) |
| ➔ Windchill PDMLink and Pro/INTRALINK | ➔ ISO 9001 Standards |

PROFESSIONAL EXPERIENCE

1. EATON TECHNOLOGIES- Kharadi, Pune 411061.

(Contracted by We Engineers Structural Consultant Pvt. Ltd.)

Engineer_ 5/2018 to present

Eaton provides power management solutions to diversified industrial customers, including electrical transmission system, lighting, hydraulics, aerospace fuel systems, truck and auto powertrain systems. Products include UPS systems, hydraulic pumps, cylinders, clutches and circuit breakers. The company sells to both original equipment manufacturers and aftermarket customers.

Project & Result:

- Rationalization and Cost Out Project of Fasteners-
Huge number of almost 3lac. Fasteners data available in the various **PLM** Software like **Innovia**, **Windchill** etc. Data available in various forms like **CAD File** (Creo, Catia, Inventor, Solid Works etc), Tabular Data Sheet, Drawings etc. Aim of the project is to Identify each and every part number on the basis of attributes like Sizes, Special features, material, finish etc. and categorized it in various types of fasteners.

2. MATCHLESS ENTERPRISES_ Sinhgad Road, Manik Baug, Pune.

Mechanical Design Engineer & Management Representative_ 12/2014 to 4/2018

- Providing design direction on products, parts and components used in Fiber Industry (Suction Guns, Spin packs), Spray drying plants for Chemical Industry(Rotary atomizers), Coal handling plant travelling tripper and stacker/ Reclaimers. (Thruster Rail clamp, Hydraulic Rail clamps). Lead evaluation and analysis of designs produced by direct reports.
- Generating 3D models and detail drawings of the machines and its various electrical, pneumatic and mechanical assemblies and structure parts.
- Design of fixtures and tooling for SPM's and preparing complete Bill of material (BOM).
- Reviewing feasibility of product design, identifying potential issues and implementing changes.
- Researching and developing ideas for new products and production systems.
- Communicating with customers and suppliers to resolve design issues.
- Preparing Assembly line layouts, general Assembly (GA) drawings & future assembly line concepts.

Projects & Results:

- **Coal mining and supported heavy equipment machines-** Skeleton to 3D, 3D to 2D and complete GA drawing.
Description- Completed 3D parametric modeling by skeleton of Bulk material handling equipments like Stacker, Reclaimer, Stacker cum Reclaimer, travelling tripper and Wagon leader.
We have carried out mid plane modeling of sub assembly like Bucket Wheel boom, Substructure, Super structure, Pylon etc.
Role- Lead project with 6 persons team.
Parametric Design of Stacker & Reclamier using Top down Approach, its main purpose is to easily modify the model only by changing 3 Parameters.
Continues coordinate with the Technical person of the respected company and validate with the standards and results.
- **Thruster Rail Clamps-**
Description - To avoid dragging. In case of travelling tripper, even though it is stopped by shutting off the drive, the running tripper belt drags the tripper on the Rail.
Role- Company, standardized Thruster rail clamps according to Clamping force, Thruster Weight and Thruster size. But some of the clients required Thruster Rail clamp for the different dimensions and capacity. So responsible for new developments of the product like thruster rail clamps and monitor product through all the phases of manufacturing till the completion by providing new detailed drawings of assembly as well as parts.
- **Rotary Atomizer-**
Description - It is a high speed precision machine used in spray drying plants to convert liquid feed material to powder eg. Milk to milk powder. Rotary Atomizer used in milk dairies, chemical industries, herbal industries food processing industries etc.
Role- Company, standardized Rotary atomizer according to total height, speed of rotation and capacity in ltr. But some of the clients required Rotary atomizer for the different dimensions and capacity. So responsible for new developments of the product according to requirements of height, wheel type, speed of wheel, capacity and monitor product through all the phases of manufacturing till the completion by providing new detailed drawings of assembly as well as parts.
- **Hydraulic System for Spin pack dismantling-**
Description - by using hydraulic system while dismantling the spin pack, damage to the housing and spinnerets is avoided. Moreover dismantling becomes fast with no fatigue to the worker.
Role- Responsible for design detailing of assembly drawing as well as all individual parts of assembly.
- **Slew Guard Bearing-** (Provide guard to large Bearing located on Stacker as per the dimensions given)
Description & Role- Make cover panel for Slew Guard Bearing.
Skeleton, 3D Model & 2D. Panel Should have maximum 20kg weight. Maintain skeleton parametric & easy to modify.

Add on work-

- Commended for strengths in defining, assessing and satisfying complex product functional specifications and manufacturability concerns.
- Designed innovative component/module replacements for existing machinery that improved functioning and extended the life of equipment thought to be obsolete for a fraction of the total replacement cost.
- Developed new assemblies that accelerated client production line speed by up to 25%.
- Became the go-to expert on evaluating design models for ISO, DFM and form-fit-function compliance. Saved hundreds of thousands of rupees in costly rework through careful design review that identified flaws in new subassembly and parts models prior to production.
- Experienced in reverse engineering of various products.

3. 1RM FITNESS EQUIPMENTS_ Dapodi, Pune 411012.

Trainee Design Engineer_ 6/14 to 11/14

- Performed the task of Designing, generating 3D models and detail drawings of Gym Fitness Equipments.
- Preparation of general assembly and detailed drawings on 2D/3D platforms.
- Assigned with the responsibilities of creating the detail drawings, main assembly drawing, part drawings and complete bill of materials for Plate Loaded machine, Tuff line selectors machines etc.
- Coordinating with customer for design related problems.

EDUCATION

Exam	Board/University	Year	Score	Grade
BE (Mechanical)	Pimpri Chinchwad Collage of Engineering (UoP)	2014	64.46%	1 st Class
DME(Diploma)	Government Polytechnic Pune	2010	67.19%	1 st class with Dist.
SSC	Maharashtra State Board	2007	84.46%	1 st Class with Dist.
Creo 2.0	MITCON Shivajinagar Pune	2014	-	A Grade
Autocad	MITCON Shivajinagar Pune	2014	-	A Grade

Academic projects:

- In **Diploma** Engineering- Design and Implementation of O-Ring Detection System. (Duration 12 months)
- In **B.E.** Engineering- Oil Extractor. (Centrifugal oil extractor). (Duration 12 months)

NOTEWORTHY ACHIEVEMENTS

- Represented Pune District collage team at the State level Inter collage Cricket tournament, Nagpur.
- Represented State level Robotics competition at the Balewadi stadium with the PCCOE team.
- Represented Pune District Football team at the State level Inter collage FB tournament, Pune.

PERSONAL DETAILS

- **Date of birth:** 4th Nov. 1991
- **Languages Known:** English, Marathi & Hindi.
- **Nationality:** Indian
- **Interests:** Travelling , Trecking, Playing Cricket (Played as Captain for GPP & PCCOE Team), Listening Music and Reading Books.

DECLARATION

I hereby declare that all the information given above is true to the best of my knowledge.