


# Aditya P. Mandhare

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## CAREER OBJECTIVE:

Seeking for a challenging position in an esteemed organization where I can efficiently contribute my technical skills and abilities to meet organization's goal and have career growth opportunities.



## SUMMARY:

- Having **2 years +** of experience as a **Mechanical Design Engineer**.
- Having Good Exposure on **Solidworks** and **Autocad**.
- 3D Modeling of **sheet metal, plastic, Casting parts** as per 2D drawings, study of components according to Design for its application & dimensions to maintain the accuracy (Tolerance). The model is easy to modify and that has to be done as per customer standards.
- Experience in **Structural Designing** with detail shop floor drawings of standard Structural members, Structural elements such as Railing, Staircase, grating & its connection etc. for construction.
- Responsible for development of new machine parts (SPM) with various configurations for the machine & Sheet metal parts with proper m/c allowances in 3D CAD Software.
- Responsible for creating the Dimensional Drawing, Main assembly drawing, Part drawing and the complete bill of material (BOM).
- Developing the conceptual mechanical design of new products & existing product modifications.
- Evaluation of Engineering drawings & specification for development process, time for 3D modeling & drafting.
- Checking and correcting the Bill of Materials (BOM) of the machine before it is delivered for manufacturing.
- Studying International standard for the manufacturing drawing and Finding Equivalent Indian standard.
- Clear the doubts of vendor regarding drawings.
- Having good Knowledge of Geometry modeling for CFD and FEA as per their Requirements.
- Having entry level knowledge of STAAD PRO.
- Modelled Some Stunning Designs as Audi R8, Lykan Hypersports, Camaro, Thor's hammer  
The modelling link is <https://grabcad.com/aditya.mandhare-2>



## WORK EXPERIENCE:

**Company Name:** UNIVERSAL SOLUTIONS, PUNE.

**Designation:** Design Engineer.

**Duration:** March 2017 to till Date.

### Job Responsibility;

- 3D Modelling of assembly & components considering component manufacturing feasibility.
- Creation of general arrangement drawing and BOM call-out
- Interact with the customer in order to understand the customer requirements
- Creating Weldment Assemblies
- Creating Sheet Metal parts
- Creating assembly using Top-down and Bottom-up approach.
- Reverse Engineering- Creation of 3D model from data taken Manually & Assembling, generating 2D-Drawings with GD&T.
- Interact with the customer in order to understand the customer requirements
- Assembled and fine-tuned components while testing and debugging overall machine



## SIGNIFICANT PROJECT:

Sr. No	Name of Project	Client	Content
1	Coal Mining Plant	Sandvik Mining and Construction, Sweden	Modification in 3D part and 3D assembly, Detail Drafting for Manufacturing and Fabrication.
2	Design of Crushing & Screening Plant Support Structure	Larsen & Toubro Construction Limited, Kolkata	3D Structure & Access system modeling, Assembly and Finishing, Detail Structure & Structural Element Drawing for manufacturing and Fabrication
3	Design of Chassis and Skid Assembly for Crushing Machine	Sandvik Mobile Crushing and Screening, Pune	3D Modeling, 3D Assembly and finishing, Detail Drafting for Manufacturing and Fabrication.
4	Structure Design of Electric Base Evaporator System for waste water	Centpro Engineering Pvt. Ltd, Pune.	3D Structure & Access system modeling, Assembly and finishing, Detail Structure & Structural Element Drawing for manufacturing and Fabrication
5	Design of Crushing & Screening Plant Support Structure	Disa India Limited, Bangalore	3D Structure & Access system modeling, Assembly and Finishing, Detail Structure & Structural Element Drawing for manufacturing and Fabrication
6	Hoit oil storage system Plant	Alliance Tech International DMCC, Dubai, UAE	3D Modeling, 3D Assembly and finishing, Detail Drafting for Manufacturing and Fabrication.
7	Ribbon Blender Design	Padmatech Industries Pvt. Ltd. Pune	3D modeling, Assembly and finishing, Detail Drafting for Manufacturing and Fabrication, Structural Frame Design by Standard Members.
8	Concept Kiosk Design	Oasis Touch Technology, Pune	3D Part Modeling, Detail Drawing for Manufacturing and Fabrication.
9	Power Plant and Equipment Layout	Tata Power Company Ltd.	Detail Plant and Equipment Layout making.
10	Modeling of Bag Filter Structure and its Components	Intensiv Filter Himenviro, Pune	Detail 3D Part Modeling, 3D Assembly and Structure Modeling.
11	Brake Chamber Packaging Box Design	Haldex India Pvt. Ltd. Pune	3D Modeling, Detail Drafting for Manufacturing.
12	Centrifugal barrel type pump system	KSB pumps pvt. ltd.	Support structure, piping and lube oil system, 3D Part Modeling, 3D Assembly and finishing.
13	Gravity Belt Feeder	FLSmidth	3D Modeling, 3D Assembly and finishing, Detail Drafting for Manufacturing and Fabrication.
14	3 Meter duct & Support structure	Shree cement	Duct & support structure detailed Manufacturing and Fabrication



## PROFESSIONAL QUALIFICATION:

- Post-Graduation program in Product & Tool Design (MIT Skills)  
Duration: Aug 2016 – Feb 2017  
Learning About: Elements of Design, Product Detailing, plastic product Design, Casting Design, Injection Mould Design, Jigs & fixture Design, Advance Manufacturing Processes.



## EDUCATIONAL PROFILE:

BACHELOR OF ENGINEERING (MECHANICAL):- Completed from Modern college of engineering, Pune 5 Passing year 2016



## ACADEMIC PROJECTS:

- **Title: Design, Manufacturing and Testing of Self-Centering Rotating Machine (B.E. Research Project, Final year)**  
**Duration:** July 2014-March 15  
**Description:** Designed a Machine for fabrication of shells having a diameter range of 500 mm to 4000 mm. & Maximum Load Capacity = 5 Tons. Completed a project with group of 4 members. Played a Group leader and chief designer of the project, Modeling was done in Solidworks.



## PERSONAL PROFILE:

Address: A-4-303, Kumar Prerana, New D.P. Road Aundh Pune 411067

Date of Birth: 15th January 1994

Sex/Marital Status: Male / Unmarried

Languages: Marathi, English, Hindi.



## DECLARATION:

I hereby declare that the information furnished above is true to best of my knowledge and belief.

Date:  
Place:

Aditya Mandhare