

# Abhijeet D. Rathod

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## Career Summary

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- Mechanical Design Engineer having Master of Engineering degree and 7+ years' experience.
- Experienced in Designing Rotating equipment like Twin Screw Pump, Reciprocating Compressor and Centrifugal Pump.
- Experienced in Component or Part Engineering like its Design, Material Selection, Tolerance Stack-up, GD&T Finalization, Heat Treatment Selection, Machining Allowance Finalization etc.
- Experienced in Mechanical Engineering Calculations like; Casing wall thickness calculation, Bolt joint calculation, Baseplate channel size calculation, Shaft deflection calculation, Bearing load calculation, Bearing life calculation, Bearing heat generation and removal calculation, Lifting lug calculation, etc.
- Experienced in Technical Discussion with Various Stakeholders like Suppliers, Customers, Assembly Team, Testing Team, Sales Team etc.
- Having Experience of Preparing Customer Submittal Documents and Getting Approval from Customer as per Customer Requirement / Site Condition.
- Experienced in Localization of Foreign Products with Technology Transfer Process.
- Having knowledge of International Standards like ASME, ASTM, API, DIN, ISO etc.
- Experienced in Product Life Cycle, ECR / ECN Processes.
- Having knowledge of New Product Development tools like FMEA, Design for Manufacturing / Assembly, DOE etc.
- Having experience of actively Participation in various major and minor KAIZENs.
- Having knowledge of CAD softwares like Creo, NX, Autocad, Solid edge etc.
- Experienced of ERP software SAP and PLM softwares Teamcenter, ECTR & Windchill

## EDUCATIONAL QUALIFICATION

Course	Specialization	College / University	Year of Passing	Percentage / CGPA	Performance
Master of Engineering	Materials Technology	The M.S. University of Baroda	2017	71.1%	Distinction
Bachelor of Engineering	Mechanical Engineering	R.K. College of Engineering and Technology, Rajkot (GTU)	2014	7.65	Distinction

## EXPERIENCE

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### 1. **Company: Siemens Energy, Ahmedabad (Formerly known as Dresser-Rand India Pvt. Ltd.)**

#### Company Profile:

- Dresser-Rand is manufacturer of Reciprocating Compressors and Turbo Gas Compressor used in oil and gas sector.

Designation: Senior Product Engineer, Reciprocating Compressor

Duration: Started from July 2022 till day

#### Job Responsibilities:

- Working as Product Design Engineer for Reciprocating Compressors.
- Providing End to End Engineering support.
- Participating in Technical Discussion with Various Stakeholders like Customers, Assembly Team, Supplier, Sales Team etc.
- Review customer specifications and input documents when order received and participate in kick off meeting for order transfer.
- Once order is transferred, start working on submission of layout/GA of compressor and performance data sheet of compressor for customer approval.
- Doing Detail engineering of reciprocating compressor design as per customer requirement / specification.
- Performing various engineering calculations like; Bolt joint calculation, piston sizing calculation, cylinder wall thickness calculation, cylinder clearance calculation etc.
- Working on Component or Part Engineering like its Design, Material Selection, Tolerance Stack-up, GD&T Finalization, Heat Treatment Selection, Machining Allowance Finalization etc.
- Preparing Drawings in CAD software UG NX. Preparing BOM in SAP and Maintaining data in PLM software Teamcenter.
- Prepare RFQs for Major Buyouts like Coupling, Lubricator, Packing Seal Box, Compressor Valves etc.
- Design reciprocating compressor as per company internal standards, API standard, ASME standard etc.

**2. Company: Allweiler India Pvt. Ltd., Daman (Circor International Incorporation)**

**Company Profile:**

- Allweiler India Pvt. Ltd. ( Formally known as Tushaco Pumps) is part of US based MNC group Circor International Incorporation.
- Circor is in various sectors like Oil and gas, Industrial, Aerospace and defense etc.
- Allweiler India is manufacturer of various Positive displacement pumps like twin screw pump, single screw pump, three screw pump, gear pump ect.
- These pumps are used in various industries like oil and gas, chemical, food and pharma, marine etc.

**Designation:** Design Engineer

**Duration:** Started from August 2019 to June 2022

**Job Responsibilities:**

- Working as Design Engineer for Twin Screw Pumps and Skids for Intercompany Orders.
- Closely work with Global Project Managers, Global Application Engineers and Global Engineering Team of Circor group.
- Providing End to End Engineering support from Quotation Stage to Commissioning Stage.
- Participating in Technical Discussion with Various Stakeholders like Suppliers, Customers, Assembly Team, Testing Team, Sales Team etc.
- Preparing Customer Submittal Documents and Getting Approval from Customer as per Customer Requirement / Site Condition.
- Performing Mechanical Engineering Calculations like; Casing wall thickness calculation, Bolt joint calculation, Baseplate channel size calculation, Shaft deflection calculation, Bearing load calculation, Bearing life calculation, Bearing heat generation and removal calculation, Lifting lug calculation, etc.
- Working on Component or Part Engineering like its Design, Material Selection, Tolerance Stack-up, GD&T Finalization, Heat Treatment Selection, Machining Allowance Finalization etc.
- Preparing Drawings in CAD software Solid Edge. Preparing BOM in SAP and Maintaining data in PLM software ECTR.
- Design twin screw pump as per company internal standards, API standard, ASME standard etc.
- Prepare RFQs for Major Buyouts like Seal, Seal Plan, Motor, Coupling, Lube-Oil Cooling System etc.
- Review and get customer approval on vendor documents like Seal Drawing, Seal Plan Drawing, Motor Drawing, Coupling Drawing, Lube Oil Cooling System Drawing etc.

- Working on Localization of Foreign Products with Technology Transfer Process.
- Approve/Reject deviation requests from operations by checking its feasibility.
- Take up with shop floor issues / testing issues and release ECN to solve issues.
- Working with various industrial standards like API (API 676, API 682), ASME, ASTM, DIN, ISO etc.

### **3. Company: ITT Corporation India Pvt Ltd, Vadodara ( On 3<sup>rd</sup> Party Contract Role)**

#### Company Profile:

- ITT is an US based MNC. It manufactures Industrial Pumps with the brand name as Goulds Pump.
- It manufactures various kinds of Industrial Pumps like OH Pump, BB Pump, Vertical Pump etc.

Designation: Design Engineer

Duration: Started from July 2018 – till Jun 2019.

#### Job Responsibilities:

- Worked as Design Engineer for ITT India plant.
- Closely work with Project Managers, Application Engineers, Sales Engineers to understand and define scope of supply.
- Design Pump skids having Pump, Mechanical Seal, Motor, Seal System, Piping, Base frame etc. in Creo.
- Prepare BOM, General Arrangement Drawing, Cross-sectional Drawing, P&ID, Fabrication Drawings etc.
- Get approval from customers for submitted documents like GAD, CSD, Part lists, P & ID etc.
- Review vendor documents like Seal drawing, Seal plan drawing, Coupling drawing, Motor drawing etc.
- Take Up with shop floor issues and raise ECR to resolve issues.
- Working on CAD software Creo, PLM software Wind chill and ERP software.
- Working with various industrial standards like API (API 610, API 682), ASME, ASTM etc.

### **4. Company: Metflow Cast Pvt. Ltd., Rajkot**

#### Company Profile:

- Metflow Cast Pvt. Ltd. is a Foundry located at Rajkot.
- It is a Sand Casting Foundry which manufactures Casting Components of butterfly valve, ball valve, globe valve etc.

Designation: Assistant Engineer, Design and Development Department

Duration: June 2016 – June 2018

#### Job Responsibilities:

- Worked as Design Engineer of Pattern Development in Sand Casting Foundry.
- Preparation of Casting CAD Models and Casting Drawings from Final Machining Drawings received from Customer in NX CAD Software.
- Defining Various allowances like Machining Allowance, Shrinkage Allowance, Draft allowance etc.
- Define Running System ( Methoding ) of castings with Required Risers, Chills and Gating System.
- Analyze the Running system in SOFTCAST simulation software to validate it and avoid casting defects like Shrinkage, Blow holes, Cracks etc.
- Prepare CAD models of Pattern and Core box to manufacture it on NC Machine.

#### **5. Company: Darshan Institute of Engg and Tech., Rajkot**

Company Profile: Darshan Institute of Engg and Tech. is an Engineering college located at Rajkot

Designation: Assistant Professor, Mechanical Engineering Department

Duration: June 2014 – April 2015

#### Job Responsibilities:

- Teach students subjects related to Mechanical Engineering. I used to teach subjects like Engineering Drawings, CAD, Product Design and Material Science etc.

#### **KEY SKILLS**

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- Having knowledge of Creo, Unigraphics NX, Solid edge and Auto-cad.
- Having knowledge of API, ASTM, ASME Standards.
- GATE Qualified in Mechanical Engineering.
- Knowledge of process improvement techniques like 6S, Kaizen, Poka yoke.
- Can work on Windchill, SAP and other ERP based softwares.

#### **PERSONAL VITAE**

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**Date of Birth :** 27/06/1992

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