

PRATIK DALVI

MECHANICAL ENGINEER

A young enthusiast proficient with problem solving skills using the application of engineering principles and creative analysis techniques. I am working in Future Factory as a Design Engineer. I am involved in the design and development of sheet metal, plastic and die casting parts. I have worked in BDI Group. I was involved in the design and development of plastic products and their moulds used in the fields like road safety, automobile industry and material handling equipment.

EXPERIENCE

Design Engineer - Future Factory, Mumbai

January 2018 – Present

- Design and development of sheet metal, plastic and die casting parts.
- Working on solid modeling, surface modeling, sheet metal modeling. Assembly modeling, component level designing and generating 2D and 3D CAD data.
- Developing Conceptual Designs Models and ideas into the products that are feasible for manufacturing by applying engineering principles.
- Analysing the Designed Parts and identifying the manufacturing processes by which the parts can be manufactured.
- Working closely with product design and research teams to share responsibilities for new product development.
- Developing conceptual assembly models and rendering 3D models for presentations.
- Coordinating with clients to solve the technical issues in the design of the products.
- Developing and testing engineering prototypes.
- Developing Vendors for manufacturing the parts.
- Preparing Bill of Materials, performing value engineering on the parts.

Graduate Engineer Trainee - B. D. Industries, Mumbai

June 2017 – January 2018

- Designed and developed plastic parts and their moulds.
- Developed and maintained Gantt Charts for the maintaining the progress report of the projects.
- Checked the feasibility of RFQs generated by marketing department as per our inhouse roto molding setup.
- Worked on solid modeling, surface modeling. Assembly modeling, component level designing and generating 2D and 3D CAD data.
- Coordinated with clients to solve the technical issues in the design of the moulds and the products.
- Coordinated with vendors for outsourcing the manufacturing of moulds as per our design of the moulds.
- Coordinated with production and quality departments to solve technical issues that arose while manufacturing of the products.
- Designed the jigs and fixtures for machining of products.
- Rendered 3D models as required by marketing department.

Internship - G. P. M. Hydraulics, Rebale, Navi Mumbai

15 June, 2015 – 15 July, 2015

- Carried out the processes involved in the manufacturing of the pistons and the cylinders for pneumatic and hydraulic actuators.

Software Experience

- Microsoft Office – Excel, Powerpoint, Word, Outlook
- Mechanical Design Softwares – Solidworks, Solidworks Simulation, Catia, Autocad, Pro E, Ansys APDL, Ansys Workbench

Skills

- Project Management, Activity Planning and Tasks Scheduling
- Vendor Development, Vendor Negotiation

- Product Design and Development
- Value Engineering and Value Analysis
- New Product Development

Testing Experience

- Level 2 Certificate and Training Course as recommended by American Society for Non-Destructive Testing in Liquid Penetrant Testing, Ultrasonic Testing, Radiography Testing, Magnetic Particle Testing by Petrocon NDT Institute, Navi Mumbai, Maharashtra, India. (2013)

EDUCATION

- **Bachelor of Engineering in Mechanical Engineering, 2016** CGPI - 7.45
Mumbai University, Lokmanya Tilak College of Engineering, Navi Mumbai
- **Diploma in Mechanical Engineering, 2013** Percentage - 85.94%
K. J. Somaiya Polytechnic, Mumbai
- **Secondary School Certificate, 2010** Percentage - 94%
Maharashtra State Board, S. E. S. High School & Junior College, Thane

PROJECTS UNDERTAKEN

- **Experimental Analysis of Heat Transfer through Wire Mesh Fins on Horizontal Surface by Natural and Forced Convection (Bachelor of Engineering Project)**
Analysed the wire mesh fins and their applications. Calculated heat transfer rate through them and the efficiency of fins. Compared their heat transfer rate and losses with that of rectangular fins. Applied the principles of convective heat transfer.
- **Drain Water Heat Recovery System (Diploma Project)**
Analysed if the heat from drainage water can be used to pre heat fresh water. Applied the principles of conductive heat transfer.

EXTRA-CURRICULAR ACTIVITIES

- Cleared Goethe Institut / Max Mueller German Language A1 exam with 91 %. (2018)
- Participated in Formula Student India as a team member of Team Schnell Racing, Lokmanya Tilak College of Engineering. Head of Department of fuel and cooling system. Conducted force analysis on the designed and modelled parts with the help of Solidworks Simulation. Worked in the department of purchase, inventory management, design and analysis, manufacturing, fabrication. (2016)
- Certificate in German Language from Mumbai University. (2015)
- Participated in Inter Department Football Tournament in K. J. Somaiya Polytechnic. (2010 - 2011, 2011 - 2012)
- Participated in Basketball Summer Camp. (2007)
- Participated in Dr. Homi Bhabha Bal Vaidnyanik Competition. (2005 - 2006)
- Participated in All India General Knowledge Test conducted by United Schools Organisation of India. (2004)

PERSONAL DETAILS

- Address: B - 603, Sarovar Darshan Tower, Near T. M. C. Office, Almeida Road, Panchpakhadi, Thane, Maharashtra, India – 400602
- Email id: dalvipratik48@gmail.com
- Contact: +919167974579
- Date of Birth: 19/10/1994
- Languages: English, German, Hindi, Marathi
- Hobbies: Playing and watching football; reading comics, novels; playing computer games