

Amruta Nandrekar



Education

- **Bachelors in Mechanical Engineering**
Jun 2009 - Jun 2014
University of Pune
- **Diploma in Mechanical Engineering**
Jun 2006 - Jun 2009
MSBTE.

Certifications

- Certification in UG-NX Software from Milestone institute of technology, Vasai, July 2018
- Post Graduate Diploma in Tool Design & CAD/CAM from IDEMI, Sion, 2016-2017
- Certification in AutoCAD Software from Government Polytechnic, Mumbai, April 2011.

Software Skills

- CREO
- SOLIDWORKS
- UG-NX
- AutoCAD
- Microsoft Office
- ODOO ERP

Domains Expertise

- Solid part modelling
- Assembly
- Sheet metal
- Static equipment design
- Rotary equipment design
- API 682
- Injection molding
- Mold design
- Plastic products

Design Engineer

Experienced Design Engineer with 5.5+ years of experience in new product development, Design and drafting. Collaborative team player with proven track record of delivering multiple, concurrent projects in fast-paced environments within budget. Ready to use expertise in Creo, UGNX, Solidworks modelling and drafting to design value-added solutions that drive productivity.

Work Experience

Design Engineer

Hi-fab Engineers Pvt. Ltd. - Mumbai
March 2023– Present.

- To design the rotary equipment-Mechanical seals which are used in oil and gas industry, Pumps, Agitator, reactor and chemical industry as per API std.
- Designed and drafted more than 100 component drawings of mechanical seals, such as gland plate, housing, drive collar and faces & 150+ General arrangement drawings.
- Preparation of General arrangement and attachments layouts of mechanical seals to get approval from client.
- Dealing with mechanical calculations of seal components such as seal balance ratio, Spring calculations, Axial Thrust on seal, Torque requirements of seal, Metal bellow free length & stretch, o'ring stretching calculations, new seal design, Standardization of seal accessories for improving engineering efficiency.
- Working on a new casting design project to reduce overall cost of seal and improve interchangeability or replacement of casting parts.
- Tackling with selection of seal accessories i.e., O Rings, Gasket, Bearing, Oil seal, hardware

Asst. Executive, Design

Sridevi Tools Engineers Pvt. Ltd. - Mumbai
Dec 2021 – Dec 2022

- Feasibility of auto plastics components with respect to new mold manufacturing
- Product design of component to make it feasible for tooling
- Details design of mold using UG NX 12.0, 1996 & AutoCAD
- 2D drawing of mold child parts, detail drawing and BOM.

Projects Handled: -

- 1) Cover side 5 - YAMAHA
- 2) Cover side 1 & 2 - YAMAHA
- 3) Stay Qtr lower trim (LH-RH) - MSIL
- 4) Front Mudguard: - Royal Enfield
- 5) Garnish comp Qtr R/L - MSIL
- 6) Cover Handle front: - SMIPL



Contact



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Language Known

- English
- Hindi
- Marathi

- 7) Front Fender A: - HERO
- 8) Front Cowl Upper: - HERO

R & D Executive

Anand International (Digno Pens)-Mumbai

June 2018 – March 2020

- Perform market researches to understand the requirements & initiate innovative product development.
- Attend the R & D meetings, discuss about new ideas, requirements.
- Design new concepts for development of new products & maintain technical compatibility to develop concepts into real products.
- Develop conceptive 3D models of product with the help of 3D software.
- Making manufacturing drawings of products.
- Develop & review design prototypes.
- Documents records for project associated activities such as Design input, Sample trial report, Design Output, Design Review, etc.

Product Development Engineer

Prime Kitchen Equipment's India Pvt. Ltd.

Jan 2017 – April 2018

- Design of New products of kitchen & modifications in existing i.e., Burner Range, Deep Fat Fryer, Dosa Plate, Griddle Plate, etc.
- Study of Raw material to produce single equipment.
- Making manufacturing drawings of products.
- Vendor coordination.
- Transferring the new product from design to production & ensure quality of fabricated product.

Development Engineer

Spring India

Nov. 2014 – Sep 2015

- Responsible to develop complex new products established by customer and internal marketing group.
- It involved communicating customer, project management and transfer to production.
- Study the customers drawing for feasibility i.e., Dimensions, Tolerances, Heat Treatment, Plating, Hardness, etc. For automotive parts e.g., Nuts, Washers, Dowell, Clips, Clamps, Circlips, Snap rings, etc.
- Design experiments of new tool as per the products material, thickness and hardness of material used.
- Vendor Coordination.