

Design Engineer

(Product Development, Engineering and R&D)

SONALI BHALKE

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Objective

I am having 5 years of experience in the mechanical engineering industry. I have completed bachelor's degree in Mechanical engineering and has expertise on various CAD/ CAM software's like SolidWorks, Pro/E & AutoCAD.

I am experienced in product development, concept design, reverse engineering and has been extensively involved in development work for machine design. Well experienced in Sheet Metal, Motor Power calculations, Sheet metal Design, Gearbox selection for Hoisting applications & Pneumatic cylinders used in Special Purpose Machines as well as Packaging machines. Well conversant with different CAD software's & CAD tools like SolidWorks and AutoCAD which are extensively used for 3D modeling, assembly, tool & die design and creating manufacturing drawings



Skills

- Expertise in New Product Development
- Research and development
- Design Engineering
- Proficient with 3D CAD Modelling and design Software (Solid Works) as well as 2D Drafting Software (AutoCAD 2D)
- Specialized in part modelling: Sheet-metal, Fabrication & Machining.
- Basic Knowledge of GD&T.
- Proficient with Machine Design, Component Selection and Calculations.
- Familiar with FEA Analysis (Solid works Simulation).
- Good knowledge of different Machining and Production processes as well as Manufacturing Processes.
- Working knowledge of Microsoft Office tools.
- Interaction with Customer & Consultant
- Project Management and Leadership Skills.
- Engr. BOM, Costing of products.
- Field Support



Software Skills

- **Solid works**
- **AutoCAD**
- **PDM**
- **Inventor**



Work Experience

Total Experience: 5 Yrs

1) Assistant Design manager | John Cockerill India Pvt. Ltd Andheri

May 2023 – Present

- Working on inventor and AutoCAD software various steel treatment equipment's.

1) Design Engineer (Solid works) | World water works India Pvt. Ltd. Mumbai.

July 2022 – May 2023

- Creation and release of product drawings and related engineering documentation work on design process of the following technologies: Moving Bed Biofilm Reactors (MBBR), BIOCOS, Dissolved Air Flotation (DAF) systems and other key product lines added through time.
- Preparing manufacturing drawing.
- Making general arrangement drawings.
- 3D modeling and drafting.
- Making User Manuals & Branding for the product.

2) Design Engineer (Solid works/Autocad) | Assi Engineering pvt Ltd. Ambarnath

Jan 2021 – June 2022

- Product Developments: **Design & Development of special purpose machines e.g. Bag Sewing Machine, Heat Sealer, Reverse Engineering on Screw Feeder, J-11 BAG cutting Machine, bagging bag machine, Hoppers & Different Types of Conveyor**
- Handle & Look after overall project parameters. (Automation product)
- Making Machine Layout, Master List, part drawings, assembly drawings & manufacturing drawings as per the customer requirement by using **SolidWorks & AutoCAD. (2D & 3D MODELING)**.
- New product development & update existing model.
- Specially worked on the sheet metal products.
- Preparing & releasing BOM & detailed drawings for the manufacturing process.
- Physically worked on shop floor for quality checking, Assembly and trial and testing

3) Design Engineer (Design & Development) | Magic Special Purpose Machineries Pvt. Ltd. Navi Mumbai.

Sept 2018 – Jan 2021

- Product Developments: **Design & Development of special purpose machines e.g. Labelling Machine, shrink wrapper conveyor, Cooling Tunnel, Change parts, Conveyor system.**
- Handle & Look after overall project parameters. (Automation product)
- Making Machine Layout, Master List, part drawings, assembly drawings & manufacturing drawings as per the customer requirement by using **SolidWorks & AutoCAD. (2D & 3D MODELLING)**.
- New product development & update existing model.
- Maintaining records of Development activities & Handle Approval Documentations. Smooth hand over of Developed product to Production with validated process & product details.
- Preparing & releasing BOM & detailed drawings for the manufacturing process.



Education

BE in Mechanical Engineering | Mumbai University.

2015 - 2018

Three Year Degree in Mechanical Engineering with 67.50% of aggregate marks.

Diploma in Mechanical Engineering | MSBTE

2011-2014

Three Year Diploma in Mechanical Engineering with 68.11 % of Marks.

S.S.C. | Kisan Highschool Nadgaon, Shahapur, Thane (Mumbai Board).

MARCH- 2011

Secondary School Certificate with 86% of Mark



Personal Details

Name : Sonali Chandrakant Bhalke

Date of Birth : 11th April, 1995

Address: 406, A wing, Shantaram Pride, Yadav Nagar, Mohone, Ambivli (E), Kalyan-421102

Gender : Female

Marital Status : Married

Languages Known : English , Marathi (Native), Hindi

Passport:- Yes



Declaration

I affirm that all information supplied by me as above is true and correct, I also fully understand that if at any stage, it is discovered that any attempt has been made by me to willfully conceal or misrepresent that facts, my candidature may be summarily rejected.

(Sonali Bhalke)