

SONALI BHOSALE

Project & Design Engineer | Product Development | Mechanical Design

Kalyan, Thane, Maharashtra, India | +91 8983318234 | sonalibhalke11@gmail.com | Passport: Available

Target: Design Engineer | Project Engineer | Product Development Engineer | Assistant Design Manager

PROFESSIONAL SUMMARY

Results-driven Mechanical Design and Project Engineer with 8+ years of hands-on experience in product development, machine design, and project documentation. Proven track record across wastewater treatment, steel/metal processing, and special-purpose machinery industries. Expert in end-to-end project lifecycle management from concept through manufacturing handover, with strong proficiency in SolidWorks, AutoCAD, Inventor, PDM/Vault, and VISUAL ERP.

CORE ENGINEERING COMPETENCIES

- New Product Development & R&D
- 3D/2D CAD Modeling & Drafting
- Machine Design & Component Selection
- Sheet Metal Design & Fabrication
- Pneumatic System Design
- Field Support & Commissioning
- BOM Preparation & Documentation
- GA & Assembly Drawings
- Reverse Engineering
- Fabrication Coordination
- Customer & Consultant Coordination
- Project Lifecycle Management

TECHNICAL SKILLS

CAD / Design Tools: SolidWorks, AutoCAD, Inventor

Data / Workflow: PDM / Vault, VISUAL ERP, Workflow

Engineering: Machine Design, Sheet Metal, Pneumatics, Component Selection

Documentation: BOM, GA Drawings, Technical Specifications, Project Reports

PROFESSIONAL EXPERIENCE

Design & Project Engineer

Sulzer Tech India Pvt. Ltd., Thane | May 2024 - Present

- Manage project activities including design documentation for wastewater treatment products (MBBR, DAF, clarifiers)
- Coordinate customer approvals, consultant submissions, and manufacturing releases
- Prepare GA drawings, fabrication drawings, and BOMs ensuring timely engineering deliverables

Assistant Design Manager

John Cockerill India Pvt. Ltd., Thane | May 2023 - Apr 2024

- Led design of steel and metal production/processing equipment including galvanizing and heat-treatment lines
- Coordinated engineering deliverables across cross-functional teams for project execution
- Ensured adherence to fabrication standards and customer specifications

Design Engineer

World Water Works India Pvt. Ltd., Thane | Jul 2022 - May 2023

- Created complete product drawings and documentation for wastewater treatment systems
- Developed 3D models, assembly drawings, and detailed part drawings in SolidWorks
- Managed BOM preparation, vendor coordination, and design reviews

PROFESSIONAL EXPERIENCE (CONTINUED)

Design Engineer

Assi Engineering Pvt. Ltd., Thane | Jan 2021 - Jun 2022

- Designed machine components, fabrication drawings, and assembly models for industrial equipment
- Coordinated with manufacturing teams for seamless product development and delivery
- Handled reverse engineering projects and product improvement initiatives
- Prepared detailed BOMs and technical documentation for production teams

Design Engineer

Magic Special Purpose Machineries Pvt. Ltd., Mumbai | Sep 2018 - Jan 2021

- Designed special-purpose machinery and automation equipment from concept to production
- Developed sheet metal components, fabrication drawings, and detailed part models
- Supported R&D initiatives for new product development and prototyping
- Coordinated with vendors and shop floor teams for manufacturing execution

SELECTED PRODUCT & EQUIPMENT EXPOSURE

MBBR Systems | DAF Systems | Clarifiers | Screw Conveyors | Belt Conveyors | Ducting Systems | Galvanizing Lines | Heat Treatment Furnaces | Steel Processing Equipment | Bagging Machines | Heat Sealers | Pneumatic Automation | Special Purpose Machinery | Wastewater Treatment Plants

EDUCATION

Bachelor of Engineering (B.E.) - Mechanical Engineering

Mumbai University | 2015 - 2018 | 67.50%

Diploma in Mechanical Engineering

MSBTE | 2011 - 2014 | 68.11%

S.S.C.

Kisan High School, Mumbai Board | 2011 | 86%

ADDITIONAL INFORMATION

- Languages:** English, Marathi, Hindi
- Passport:** Available for international assignments
- Availability:** Immediate / Negotiable notice period