

# Trisharan Sawant *Design Engineer*

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 Nigdi, Pune, Maharashtra, India.

 Male

 05/07/1998

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## Profile

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Results-oriented Mechanical Engineer with proven expertise in 2D & 3D engineering, static equipment design, and comprehensive project coordination. Proficient in PV Elite, AutoCAD, and ERP systems, with a robust understanding of ASME compliance, design audits, and fabrication. Consistently delivers high-quality, cost-efficient solutions by effectively leading drafting teams, finalizing critical designs, and streamlining engineering workflows.

## Professional Experience

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12/24 – Present

Bhosari, Pune,  
Maharashtra, India.

### Static Design Engineer

*DDE Bioengineering Private Limited*

- \* Spearheaded the design, supervision, and finalization of pressure vessels and atmospheric tanks using PV Elite and AutoCAD, ensuring ASME code compliance.
- \* Led ASME code certification processes, participated in shop certification audits, and approved component-wise Bill of Materials (BoM).
- \* Managed 2D, 3D, and P&ID engineering workflows, including finalizing room layouts and supervising 3D modeling, cable tray routing, and conduit design.
- \* Conducted external load analysis, resolved customer comments, and led internal and external 3D model reviews for final approval.
- \* Coordinated with third-party agencies, ensured accurate documentation of vendor inputs, and finalized piping isometrics and site work BoMs in ERP systems.

12/22 – 12/24

Chakan, Pune,  
Maharashtra, India

### Design Engineer

*Cee Dee Vacuum Equipment Private Limited*

- \* Utilized PV Elite for static equipment design and analysis, ensuring compliance with ASME, ASTM, IBR, EN, and TEMA standards.
- \* Provided technical oversight for static equipment design and fabrication, including external load analysis on nozzles and structural attachments.
- \* Supervised and mentored junior engineers, ensuring accurate calculations and drawings, and prepared material requisitions.
- \* Coordinated with vendors and cross-functional teams, reviewing inter-discipline drawings and resolving critical project issues.
- \* Monitored project efficiency, productivity, and budget constraints, managing manpower forecasts and tracking project progress.

11/21 – 04/22

Katraj, Pune,  
Maharashtra, India

### Design Trainee

*Bolt Technologies*

- \* Assisted senior engineers in designing, drafting, and modifying mechanical components and systems using 3D CAD software (CATIA, AutoCAD).
- \* Performed basic engineering calculations and simulations, and supported prototyping, design validation, and testing.
- \* Collaborated with cross-functional teams, supported material sourcing, and maintained organized records of design data and project files.

## Education

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2017 – 2022

Pune, Maharashtra,  
India.

### B.E. (Mechanical)

*Sinhgad School of Engineering*

Percentage: 73.80%

06/16 – 06/17

Parli Vaijnath,  
Maharashtra, India.

**12th**

*Vaidyanath College of Science Art and Commerce*  
Percentage: 66.19%

## Skills

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PV Elite (Pressure Vessel & Tank Design)

FEA (Finite Element Analysis)

AutoCAD & 3D Modeling

ERP Systems

Strong cost awareness and understanding of project profitability.

Balances quality control with commercial efficiency for business success.

Contributes to knowledge sharing and process improvements within the team.

Adapts to organizational changes and process enhancements.

## Languages

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• English

• Hindi

• Marathi

## Projects

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02/23 – 02/24

**BPCL Refinery**

*Cee Dee Vacuum Equipment Private Limited*

\* Prepared pressure vessel general arrangement and detailed fabrication drawings using AutoCAD 2D.  
\* Performed strength calculations and analysis for pressure vessels and heat exchangers, both manually and using PV Elite, and developed Bill of Materials (BoM).  
\* Collaborated with clients and interdisciplinary teams to set project goals and streamline decision-making for critical infrastructure projects.

## Certificates

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• ASME Code Interpretation

• Internal Auditor ISO 9001: 2015