

PIYUSH MALVIYA

Static Equipment Design Engineer

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PROFESSIONAL SUMMARY

Static Equipment Design Engineer with 6+ years of experience in pressure vessels, reactors, tanks, silos, filters and shell & tube heat exchangers across EPC and consulting environments. Proficient in ASME Section VIII Div. 1, API 650, TEMA, IS 9178, and other international standards. Skilled in PV Elite, Compress, NozzlePRO, and STAAD.Pro. Acknowledged for developing customized engineering tools, optimizing material utilization, and consistently delivering high-quality technical deliverables.

PROFESSIONAL EXPERIENCE

Oedec Engineering Consultancy LLC – Pune

Lead Static Equipment Design Engineer | Apr 2025 – Present

- Estimation of manhours for static equipment (pressure vessels, reactors, and columns) for projects like CNG and biogas plants.

TATA Consulting Engineers Ltd – Pune

Assistant Manager-Static Equipment | Mar 2024 – Apr 2025

- Performed design calculations and prepared Mechanical Data Sheets (MDS) for static equipment (pressure vessels, filters, shell & tube heat exchangers, and columns).
- Prepared Material Requisitions (MR) for FRP and metallic static equipment.
- Reviewed Supplier Design Calculations, General Arrangement Drawings and Fabrication Drawings to ensure adherence to MDS and project specifications.

Pharmadule Engineering India Pvt Ltd – Mumbai

Senior Static Equipment Design Engineer | Jun 2023 – Feb 2024

- Designed vessels and columns using PV Elite and Compress software.
- Performed nozzle analysis with NozzlePRO.
- Reviewed GA and fabrication drawings of vessels and columns.
- Prepared Technical Delivery Condition (TDC) of industrial materials.

Thermax Ltd (FGD Projects) – Pune

Static Equipment Engineer | Jul 2019 – Jun 2023

- Designed storage tanks as per IS 803 and API 650 using self-developed Excel spreadsheet and silos as per IS 9178 using both self-developed Excel and STAAD.Pro software.
- Reviewed General Arrangement and Fabrication Drawings of Storage Tanks and Silos.
- Designed Pressure Vessels in accordance with the ASME Section VIII Division I design code using PV Elite software.
- Reviewed General Arrangement and Fabrication Drawings of Pressure Vessels.
- Supported proposal team with weight estimates of static equipment.
- Prepared procurement specifications and conducted technical evaluations for exotic plate materials (e.g., C-276 and Ti), as well as rubber lining, borosilicate lining, glass flake lining, and FRP piping systems."

John Deere (M.Tech Project) – Pune

Project Trainee | Aug 2018 – Feb 2019

- Built MATLAB-based simulation model using Newton-Euler methods to assess off-road vehicle stability.

EDUCATION**M.Tech in Mechanical Engineering (Machine Design)**

VJTI, Mumbai — 2017 – 2019 | CGPA: 8.35/10

B.E. in Mechanical Engineering

VIIT, Pune — 2012 – 2016 | Score: 61.24%

HSC (XII), Maharashtra Board – 2012 | 70%**SSC (X), CBSE Board – 2010 | CGPA: 8.6**

PUBLICATIONS

- “Development of a Simulation Model for Computing Stable Configurations for Off-Road Vehicle”-SAE Technical Paper 2019-28-0126, DOI: 10.4271/2019-28-0126.

ACHIEVEMENTS

- Commended by Morimatsu Dialog (Malaysia) Sdn. Bhd. for high-quality and timely deliverables using Compress software on a critical Saipem project.
- Awarded by Thermax Ltd. for developing in-house design programs for storage tanks and silos, improving efficiency and accuracy.
- Recognized by Thermax Ltd. for optimizing Hastelloy (C-276) plate cutting layout, resulting in significant material savings during absorber fabrication.
- Secured a top 5% rank in GATE 2017 and stood 3rd in district in Class X (CBSE).

TECHNICAL SKILLS

- **Design & Analysis:** PV Elite, Compress, NozzlePRO
- **3D Modeling:** CATIA, CREO, SolidWorks
- **Structural:** STAAD.Pro, ANSYS
- **Drafting & Coordination:** AutoCAD, Navisworks