

PIYUSH MALVIYA

Static Equipment Design Engineer

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Pune, Maharashtra

WORK EXPERIENCE

Pharmadule Engineering India Pvt Ltd

Jun 2023 – Present

Mumbai

Roles and Responsibilities:

- Design of Pressure Vessels, Columns per ASME Section VIII Division I Design Code in PV Elite Software.
- Checking of General Arrangement Drawings and Fabrication Drawings of Pressure Vessels and Columns.
- Perform Analysis in NozzlePro Software.

Project: Flue Gas Desulfurization (FGD)

Customer: NTPC, DVC, MPL and PPGCL

Thermax Limited

Jul 2019 – Jun 2023

Pune

Roles and Responsibilities:

- Design of Vertical Storage Tanks per IS 803 and API 650 Design Codes through self-developed excel spreadsheet.
- Checking of General Arrangement and Fabrication Drawings of Vertical Storage Tanks.
- Design of Silos per IS 9178 Design Code through self-developed excel spreadsheet and STAAD.Pro Software
- Checking of General Arrangement and Fabrication Drawings of Silos.
- Offer Support to Proposal Team by Estimating Tanks and Silos Material Weight during Pre-Bid Stage.
- Mechanical Sizing of Equipment's like Tanks, Silos, Ducts, Chimneys, Storage Sheds, etc.
- Preparation of Technical Procurement Specifications, Technical Delivery Conditions of Materials and Evaluation of Technical Offers of Various Packages like FRP Spray Header Pipes, Borosilicate Lining, Glass Flake Lining, Rubber Lining, etc.

M.tech Project Trainee

John Deere

In Aug 2018 – Feb 2019

Pune

- Developed a simulation model for computing stable configurations for off- road vehicle. Dynamic mathematical model is developed using Newton-Euler approach which yields a system of non-linear equations which are solved iteratively using MATLAB software to predict stability for varying

terrains and dynamic loads. Given a vehicle geometry and terrain conditions, this methodology allows the simulation and prediction of various longitudinal overturning situations under dynamic loading.

EDUCATION

M.tech in Mechanical Engineering (Machine Design)

Veermata Jijabai Technological Institute (VJTI)

Score: 8.35/10

Jul 2017 – Jul 2019

Mumbai

B.E in Mechanical Engineering

Vishwakarma Institute of Information Technology

Score: 61.24/100

Jul 2012 – Jul 2016

Pune

XII

Maharashtra State Board

Score: 70/100

Jul 2011 – Jul 2012

Amravati

X

CBSE

Score: 8.6/10

Jul 2010 – Jul 2011

Amravati

PUBLICATIONS

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

ACHIEVEMENTS

- Awarded for developing design programs for vertical storage tanks and silos by Thermax Limited.
- Awarded for optimizing hastelloy (C-276) plate cutting layout required for Absorber manufacturing by Thermax Limited.
- Ranked within 5 Percentage in GATE'17 Examination.
- Ranked Third in District in X Standard.

SOFTWARES

PV Elite, NozzlePro and AMETank

CATIA, CREO and SOLIDWORKS

STAAD.Pro and ANSYS