

KALYAN SURESH JADHAVLinkedIn: <https://www.linkedin.com/in/kalyan-jadhav02002833b?utm>Email: kalyanjadhav9155@gmail.com**Current Address:** Taramati park Yashoda colony, Wakad,Pune
Pin code - 411033**Local Address:** A/P Khedbhalvani, Tal-Pandharpur Pin code -
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Summary:

Detail-oriented Piping Stress Engineer with hands-on experience in Caesar II, AutoCAD & ANSYS Workbench for real-time metallic and non-metallic piping system analysis. Proficient in handling FRP System and performing vent, stack& Duct analysis. Skilled in the complete project lifecycle within Oil & Gas, Power Plant, and Process Industries, with strong understanding of system design inputs, ISO markups, stress analysis, and compliance with industrial codes and standards.

Education:

- | B. tech - JSPM's Rajarshi Shahu College of Engineering, Pune.
(Bachelor of Technology in Mechanical Engineering) CGPA=7.5
- | Diploma – Karmyogi polytechnic collage of engineering Shelve Pandharpur Marks = 84.67%
SSC – New english school mangalwedha Marks=64.80%.

Experience:

Piping Stress Intern**Sepadu Tech Pvt. Ltd., Pune | Jan 2025 – Present**

- Executed stress analysis using Caesar II and ANSYS Workbench for piping systems involving metallic and FRP pipelines.
- Conducted vent and stack analysis using Space Claim and ANSYS tools for an engineering project.
- Reviewed 2D/3D piping layouts using AutoCAD and Plant 3D, incorporating system-level design and real-time adjustments.
- Generated Caesar II reports, performed system qualification, and prepared ISO markups.
- Involved in MTO extraction, spooling, skid layout, and container-based transport sizing.
- Collaborated with cross-functional teams for P&ID, cable tray routing, and support foundation analysis.
- Gained practical exposure to greenfield, brownfield, onshore/offshore projects including upstream, midstream, and downstream systems.
- Familiar with pipe fittings, types of stresses (sustained, expansion, occasional), and their allowable limits.
- Reviewed 3D plant models using Navisworks to ensure layout feasibility

Certifications:

- ▮ Caesar II Piping Stress Analysis – [Sepadu Tech]
- ▮ AutoCAD Plant 3D– [Sepadu Tech]
- ▮ ANSYS Workbench (FEA)– [Sepadu Tech]

Project:

Academic Projects

Finite Element Analysis of Elbow Stress Concentration

- Conducted FEA using ANSYS to evaluate high-stress zones in elbows under cyclic loading (Ongoing)
- Applied project learnings to real-time project assessments and Caesar II validation.

Technical Projects

Design and Development of an Automatic Diagonal Tape Cutter (Technical Project) -
Designed a cross-cut (diagonal) tape dispensing machine to automate electronics packaging.

- Used AutoCAD/Solid works for 3D modeling and design validation.
- Implemented Arduino-based control system for automatic cutting operations.
- Ensured compatibility with industry-standard tapes.
- Addressed tape adhesiveness and mechanical feed mechanism challenges.
- Prepared detailed CAD drawings, BOM, and fabrication plan for prototyping.

Professional Skills:

Design & Drafting: AutoCAD, Caesar II, Plant 3D, Space Claim

- Stress Analysis: Caesar II, ANSYS Workbench (FEA), Stack & Vent Analysis
- Review Tools: Navisworks
- Project Tools: ISO markups, P&ID interpretation, System Qualification
- Standards & Codes: ASME, ANSI, ISO, API (Basic awareness) **Professional**

Chapter:

Student Member: The American Society of Mechanical Engineer (ASME)