

# UMESH GOHIL

Static Equipment Design Engineer

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*Open to remote roles globally / Relocation with or without visa sponsorship / Freelance available*

## PROFESSIONAL SUMMARY

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Static Equipment Design Engineer with **7+ years** of experience designing pressure vessels, heat exchangers, columns, and filtration/drying systems for pharmaceutical, oil & gas, and Chemical industries. Proficient in **ASME Section VIII** with hands-on software experience in **PV Elite, Compress, and DIMy**. Proven ability to adapt across international codes including **AD 2000, EN 13445/PED, and AS 1210**. Track record of direct collaboration with overseas clients across Germany, USA, Italy, France, and Australia. Actively seeking remote or global relocation roles; open to positions with or without visa sponsorship. Available for full-time remote and freelance engagements.

## CORE SKILLS

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<b>Software</b>	PV Elite, Compress, DIMy, Autodesk Inventor, SolidWorks, Mechanical AutoCAD, Autodesk Vault, Oracle Agile PLM, SAP, MS Office
<b>Codes &amp; Standards</b>	ASME Section VIII, TEMA, ASME B16.5, EN 13445, AD 2000/PED (project exposure), AS 1210 (familiar), ISO 9001, AWS/ISO Welding Standards
<b>Technical</b>	Design Calculations, GD&T, FEA Cross-validation, MDR Preparation, PLM/PDM Systems, P&ID/PFD Interpretation, Material Requisitions (MR/TDS), DFM/DFA
<b>Professional</b>	Project Management, Cross-functional Leadership, Vendor Management, International Client Collaboration, Remote Collaboration, Technical Mentoring

## WORK EXPERIENCE

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### Senior Engineer — Static Equipment Design

*Feb 2025 – Present*

*GMM Pfaudler, Karamsad, Anand, India*

- Design pressure vessels, filtration and drying systems per ASME Section VIII annually, ensuring full compliance with client specifications, safety standards, and international codes.
- Execute European code projects using DIMy for AD 2000 vessels under PED, demonstrating cross-code adaptability across ASME, European, and Australian standards.
- Review AutoCAD/Inventor-based GA drawings across 10+ active projects to verify dimensions, materials, nozzle orientation/elevation, temperature, and pressure inputs.
- Validate critical design parameters (thickness, MDMT, PWHT, MAWP, MAP, applied loads) using PV Elite for equipment items per project cycle.
- Prepare and issue Material Requisitions (MR) and Technical Delivery Specifications (TDS), ensuring zero delays in procurement across multi-discipline project teams.
- Conduct weekly remote design reviews and model walkthroughs with international licensors across 3+ time zones, maintaining project schedule adherence.
- Manage technical discussions across vendors, clients, and 4 internal departments (purchase, production, QC, engineering) to ensure full project alignment.
- Mentor 3–4 junior engineers and drafters in GD&T, welding symbols, and PLM workflows, reducing drawing revision cycles by approximately 25%.
- Cross-check PV Elite results against external FEA to validate nozzle reinforcement, shell/head, and support design across high-pressure applications.
- Prepare Manufacturer's Data Reports (MDR) per ASME format, consolidating material certifications, inspection records, and compliance documentation.

### Engineer — Static Equipment Design

*Jan 2022 – Feb 2025*

*L&T Technology Services Limited, Vadodara, India*

- Designed pressure vessels, heat exchangers, and columns according to ASME Section VIII and TEMA standards,

handling 10+ projects over 3-years of tenure.

- Reviewed fabrication drawings and plate cutting layouts, maintaining zero non-compliance incidents with ASME and client specifications.
- Built hands-on proficiency in PV Elite over 3 years — executed thickness calculations, nozzle reinforcement checks, and load case evaluations for 30+ vessels.
- Managed 50+ design change orders (ECR, ECN, MCO) in Oracle Agile PLM, ensuring full revision traceability and zero data loss.
- Coordinated with vendors on material requisitions and document reviews, contributing to ISO 9001-compliant quality control processes.
- Maintained ISO 9001 compliance across all design activities, supporting 2+ technical audits with zero major non-conformance findings.
- Utilized P&IDs and PFDs as primary design inputs for static equipment across oil & gas and chemical sector projects.

### **Design Engineer — Static Equipment & Filtration Products**

*Mar 2019 – Dec 2021*

*Aqseptence Group (India) Pvt Ltd (Johnson Screens), Sanand, India*

- Led team of 4–5 drafters delivering fabrication drawings for static equipment; managed direct technical collaboration with overseas clients across 5 markets (Germany, USA, Italy, France, Australia).
- Designed mechanical products across 6+ industries: oil & gas, water treatment, mining, filtration, SPM, and new product development.
- Created 3D parts, 2D drawings, and BOMs for 200+ components across structures, sheet metal, machining, casting, and forging using Autodesk Inventor and AutoCAD.
- Specialized in V-wire screen design for filtration and separation applications across mining and water treatment sectors.
- Managed product data for 500+ part numbers using Autodesk Vault and SAP PLM, maintaining data integrity across the product lifecycle.
- Applied GD&T and welding symbols per ISO/AWS standards across all drawings, reducing manufacturing ambiguity and rework.
- Selected and detailed pipes per ASME B31.3 and ASME B16.5; performed engineering calculations for gears, bearings, shafts, and lifting structures.
- Visited customer sites and resolved 10+ technical field issues, directly improving product performance and client satisfaction.

### **Key Achievements:**

- Modified single-side screen-cutting SPM to dual-side operation, reducing screen cutting lead time by ~40–50%.
- Redesigned screen machine base structure, achieving approximately 15–20% capex cost reduction.
- Implemented GD&T optimizations across 30+ drawings, reducing manufacturing cost and lead time.
- Designed hydraulic cylinder-based holding/welding fixture, improving weld quality and reducing production rework.
- Designed new storage rack system using CAD, improving raw material identification and reducing retrieval time by ~20%.

### **Project & Design Engineer**

*Nov 2018 – Feb 2019*

*Plantech Medical System Pvt Ltd, Ahmedabad, India*

- Reverse-engineered 3+ imported medical equipment models to develop localized, cost-effective designs using SolidWorks and AutoCAD.
- Managed inventory of 100+ raw material and finished part SKUs using Microsoft Excel to ensure seamless supply chain operations.
- Sourced alternate vendor for custom/commercial items, reducing product cost by 10–15%.
- Redesigned existing product applying DFM and DFA principles, reducing assembly time by ~20% and improving serviceability.

### **Design Engineer (Contract)**

*Jul 2018 – Oct 2018*

*Aqseptence Group (India) Pvt Ltd (Johnson Screens), Sanand, India*

- Contributed to design of 1st, 2nd, and 3rd stage water processing equipment for industrial clients.
- Reviewed client data sheets and prepared 3D models and manufacturing drawings using Autodesk Inventor.
- Built foundational proficiency in Autodesk Inventor, Autodesk Vault, and SAP PLM through active project

delivery.

## KEY CERTIFICATIONS

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- **Ansys** — **Stresses in Pressure Vessels** (Nov 2025)
- Dassault Systèmes — Certified SolidWorks Associate (CSWA), Mechanical Design (Oct 2017)
- GE Aerospace — Supply Chain Job Simulation (Oct 2023)
- S.E.A — CAE Professional in SolidWorks (Feb 2018)
- S.E.A — Certificate of CAD Expert (Oct 2017)
- OpenSAP — Business Opportunities of a Digitally Transformed Economy (Apr 2024)
- Be10x — AI Tools Workshop (Nov 2025) | Outskill — Generative AI Mastermind (2025)

## EDUCATION

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### **B.E. in Mechanical Engineering**

*Jul 2013 – Jun 2017*

*L.J. Institute of Engineering & Technology, Ahmedabad | CGPA: 8.1/10*

*Recognition: 34<sup>th</sup> rank nationally (out of 400 teams) — BAJA SAEINDIA 2017, Transmission Department*

## LANGUAGES

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**English** — Professional Working Proficiency (B2/C1)   **Hindi** — Fluent   **Gujarati** — Native