

Damodar Dasi

Senior Mechanical Engineer · Projects & Packages. Experience across fuel systems, storage tanks, mechanical skids, compressor and PSA nitrogen packages, and integrated package design.



PROFILE
Mechanical & Project Engineer

EXPERIENCE
6+ years overall · 4+ compressor/package

LOCATION
Sharjah, UAE

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CORE SOFTWARE
SolidWorks · AutoCAD

PROFESSIONAL SUMMARY

Mechanical engineer working on equipment packages, from design through project coordination. I build the full 3D package and equipment arrangement, design process and utility piping, lube-oil and seal systems and base frames, produce the drawings and MTO/BOM, and coordinate with the other teams through manufacturing and FAT/SAT.

Recent projects include the Emarat mobile fueling unit, a smart fleet-management demo unit, RFQ-stage fuel systems, storage tanks and mechanical skids. Earlier compressor and PSA nitrogen package work can be discussed at interview.

PROFESSIONAL EXPERIENCE

Nov 2025 – Present

- Mechanical Design & Project Engineer**
Meta Green Middle East FZ LLC · UAE
- Led design as Head of Design and Project Coordinator on the Emarat 40 FT dual-compartment MFU (42,600 L), taking it from tender through procurement, manufacturing, FAT and SAT to commissioning.
 - Delivered a Maser Italia smart fleet-management demo fueling unit in the same role, through manufacturing and commissioning; it is now the reference unit shown to visiting clients.
 - Designed about 25 fuel and process storage tanks from 500 L to 60 KL, with GA, nozzle schedules, supports and fabrication drawings.
 - Designed 5 RFQ fuel systems from 1,000 IG to 65,000 L (F-02 to F-06) to UL 142 and ADR requirements, with GA drawings for each bid.
 - Built 3D models, GA/fabrication drawings and BOM/BOQ/MTO in SolidWorks and AutoCAD, including weight, CoG and lifting checks for skids and supports.

Apr 2023 – Oct 2025

- Senior Design Engineer — Compressor, Compander & PSA Nitrogen Packages**
DesignTech Systems · onsite at Atlas Copco
- Led mechanical and package design of centrifugal compressor, compander and PSA nitrogen packages for international oil & gas clients, through manufacturing and FAT.
 - Designed process piping, lube-oil and seal-gas systems and base frames to API 614, 617, 692 and ASME B31.3, with the GA, fabrication drawings and MTO/BOM.
 - Led and trained a team of 6 designers, assigning and checking their drawings; recognised twice as Guiding Star for mentoring.
 - Handled customer revisions and manufacturing queries during build and FAT.

CORE EXPERTISE

Compressor Packages

PSA Nitrogen

Fuel Systems

Storage Tanks

Mechanical Skids

Package Integration

Process Piping

Lubrication Systems

Seal Systems

3D Mechanical Design

Manufacturing Drawings

MTO / BOM

FAT / SAT

SOFTWARE

SolidWorks

AutoCAD

Autodesk Inventor

AutoCAD 3D

LEADERSHIP & COORDINATION

- Led and trained a team of 6 designers/engineers at DesignTech Systems.
- Head of Design Department, Project Coordinator and Lead Mechanical Designer for the Emarat 40 FT MFU at Meta Green UAE.
- Assigned modelling and drawing work and reviewed junior deliverables.
- Coordinated with senior management, project managers, procurement, production, instrumentation and customers/vendors.

RECOGNITION

- **Guiding Star** (mentorship) ×2 — DesignTech Systems, Q1 & Q3 2023, for mentoring 6 people.
- **Star Performer** ×2 — DesignTech Systems, Q2 & Q4 2022.

Mar 2022 — Mar 2023

Design Engineer — Compressor Packages

DesignTech Systems · offsite

- Built 3D compressor package models, GA layouts and manufacturing drawings.
- Prepared BOM/MTO and equipment sizing, and coordinated P&ID and equipment selection.
- Supported vendors and customers through FAT/SAT; recognised twice as Star Performer in 2022.

Dec 2021 — Feb 2022

Design Engineer — Apprentice / Trainee

DesignTech Systems

Modelled industrial equipment, silencers, air-exhaust systems and fabricated structures in Autodesk Inventor.

Oct 2020 — Nov 2021

Junior Design Engineer

Sai Jyothi Engineering Works

Produced 3D models and detailed drawings with GD&T for mechanical and piping assemblies, and supported fabrication and inspection.

APPLICABLE STANDARDS & CODES

Project experience includes work associated with API 614, API 617, API 672, API 692, ASME B31.3, ASME Section VIII, UL 142, UL 2085, NFPA, ATEX/IEC, ADR where applicable, and ISO 8573-1.

EDUCATION & LANGUAGES

B.Tech, Mechanical Engineering

Pragati Engineering College, JNTU Kakinada · 2016–2020

Industrial Training

45-day training, Vizag Steel Plant — Blast Furnace Operations

English · Hindi · Telugu

SELECTED PROJECT EXPERIENCE

F-01 · Emarat Mobile Fueling Unit

40 FT dual-compartment MFU-3A · 42,600 L gross · UAE. Head of Design, Project Coordinator and Lead Mechanical Designer, tender to SAT.

F-07 · Maser Demo Portable Fueling Unit

Demonstration unit integrated with Maser Italia smart fleet management · UAE. Head of Design, Project Coordinator and Lead Mechanical Designer through manufacturing and commissioning; now the reference unit for client verification visits.

F-02 to F-06 · Fuel Systems RFQ Designs

10,000 L skid-mounted diesel dispensing unit, 65,000 L and 30,000 L portable fuel stations, 1,000 IG petrol and diesel mobile stations. GA drawings, nozzle schedules and equipment interfaces to UL 142 / ADR for each bid; awaiting PO.

S-01 · Storage Tank Portfolio

About 25 fuel and process tanks, 500 L to 60 KL. Representative 6,000 L filter vessel to ASME VIII Div 1: GA, nozzle schedule, supports, design basis and test requirements.