# Professional Summary

Having around 11 years of experience in the Oil and gas industry in Offshore FPSO, Onshore LNG, refineries & Petrochemical plants at **FEED** and **EPC** stages of projects. Having experience in Greenfield, Brownfield, and plant modification projects.

Currently working with **JGC** **Yokohama**, Japan as Piping Engineer involved in FEED & Detailed Engineering projects. worked with operating company standards like **PETRONAS, MODEC, SHELL, IOCL, TOTAL, and WOODSIDE.**

# Roles and Responsibilities

* Familiar with international codes and standard (especially **ASME B31.3, API, PTS** etc.)
* Good knowledge in preparation of engineering specifications and Job instructions for piping designs, materials, insulation, painting etc.
* Good knowledge in Plant Layout Planning and Detailed Piping Design in view of Construction, Process Flow Scheme, Machinery Operation etc.
* Good working experience in **Compressors**, **Columns**, **Exchangers**, **Pumps**, **Reactors**, **Tanks and Vendor packages** etc.
* Ability to Conceptualize **Plot** **plan**, **Equipment** **layout**, **Utility** **station** layouts etc.
* Review & commenting of Plotplan, Equipment **GA**, valve **datasheets**, instruments, piping speciality & Isometrics.
* Preparation of preliminary and intermediate **MTO** at different stages of project.
* Preparing **Piping** **Assembly** **STD**, **Utility** **station** layout, Instrument air layout etc…
* Preparation of vessel trims, LG/LT & nozzle orientation drawings.
* Presenting 3D model at different stages (30%,60% and 90%) in Internal and **client** **Model** **Reviews**.
* Design and modelling of **Firewater** **Deluge** **system** as per the process safety requirements.
* Preparation of **Equipment** **Layout**, support drawings, Piping **GAD** etc.
* Modelling of piping, equipment’s and structures using **PDMS**/**E3D**/**SP3D**.
* Pipe Support tagging & **MDS** modelling for both stress critical and non-Critical lines.
* Other responsibilities include inter-discipline coordination and **Manpower** Scheduling.
* Preparation of Equipment list, line list, Valves list etc.
* Piping **Isometrics** and piping **GAD** checking and Issuance.
* **2D** support drawing preparation and extraction from E3D Draw.
* Preparing the handling study sketches for maintenance of valves and motors etc.
* PDMS/E3D **PML** development, C# **Addins** & **PMLNet** customization.
* Building **Cats** and **Specs** for piping components, specialities and instrument valves.
* **MDS** supports customization as per project requirements.
* E3D **Draw** Library setup and administration.
* Generating **Navis** model and data consistency error reports.
* Hands on experience in MS office Apps and PowerBI.

# Work Experience

JGC – Yokohama, JAPAN – From Nov2022 to Current (Deputed from HCL Tech Chennai)

Project: ZLNG

**Role:** Piping Engineer

* Worked in Hot water Pumps & Heater Skids, N2 Holder & Compressors Packages and

Chemical Injection skids.

* Preparation of 3D model at FEED and EPC at 60%, 90% stages for project.
* Piping Assembly STD and utility station layout preparation.
* Reviewing and providing comments to equipment Vendor drawings.
* Designing platform for vessels and proving input to Mechanical team.
* Plotplan study, development and Equipment Vendor drawing commenting.
* Preparation of technical reports/instructions in project.
* Isometrics checking as per the checklist.

 KBR - Chennai, INDIA – From May2020 to Oct2022

Projects: Plaquemines-LNG | Sangomar-FPSO | Marlim 1-MV33

**Role:** Senior Piping Designer

* Worked in LNG **Liquefaction** Train system (LTS modules).
* Area Designer for **Flare** and **KO** **drum** unit and process Piperack's.
* Area designer in **GTG** module for developing the fire water network.
* Presented 60% & 90% Model review with client.
* MDS Support modelling and Isometric Issuance.
* Support modelling coordination, guidance, Isometrics back-drafting and issuance.
* MDS Support Coordinator.
* Piping Support drawing extraction in E3D Draw.

Technip Energies (@TechnipEnergies) / X

TechnipFMC – Chennai, INDIA – From July2013 to Apr2020

Projects: Coral FLNG | ZAPSIB-2 –PE-Plant | Sasol LCCP Ethane Cracker | Baltic Urea | JBF

Role: Senior Piping Designer

* FW deluge lines modelling for process equipment’s.
* 3D Modelling of columns, pumps, Reactors and Exchangers as per the Vendor GA.
* Preparation of Nozzle orientation drawing of columns and Tanks.
* Preparation of Manual MTO in Baltic Urea Project.
* Co-ordination with Subcontractor for Tie-in Schedule Preparation and follow-ups.
* Site Query coordination and resolution.
* Isometric and Construction DMS coordination.
* 3D model clash check and resolution
* IDC drawing checking from Safety, Inst, electrical, handling, structural teams.
* MDS Support modelling Coordinator
* GAD Preparation and extraction from E3D Draw.
* Instrument (ON/OFF) valves Review & Commenting.
* Co-ordination with Subcontractor to have clash free Model & resolution.
* Close out of Internal & Client model review comments.
* Piping Isometrics coordination and weekly report sending to projects using POWER BI tool.

# Achievements

* Developed the piping dead load program in E3D for calculating the Dead weight of piping system and providing input to the structural team. (For ZLNG project)
* Developed Copy Utility in E3D for LTS Modules Copy functions. (For PLNG project)
* Developed loading info tool in E3D using stress summary (For PLNG project)
* Developed SPS utility for project special SPS supports. (For Coral FLNG project)

# Software Skills

* E3D/PDMS, S3D/ SP3D
* PML coding for E3D/PDMS
* AutoCAD, MicroStation, Smartsketch
* Navisworks, Smartpant Review.
* Visual Studio C# dotnet, Python, Cmd & PowerShell scripts, Git.
* Office 365 Apps, PowerBI

# Overseas Experience

* Yokohama, Japan (Nov2022 to Till Date)

# Educational Qualifications

* **Bachelors in Mechanical Engineering** (2016 to 2019) CGPA 8.3

Sathyabama Institute of Science and Technology, Chennai, India.

* **Diploma in Mechanical Engineering** (2010 to 2013) CGPA 9.1

CPCL Polytechnic College, Chennai, India.

# Languages Known

English & Tamil (Native)

# Personal Details

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