Career Summary – As a qualified Mechanical Engineer, I'm currently employed as a Piping Engineer(Layout and Design), having 3 years of experience with one of the leading EPC organizations. This role has given me opportunity to apply my skills and knowledge in SP3D and AVEVA E3D to design and model process and utilities piping systems and plant layout for various EPC projects, worked on EPC projects involving Refineries and SAF, planning and executing high–quality piping deliverables and meeting the client's and project's specifications & standards.

Academic Qualification:

Year Passed	Institution/University and City	Qualification/s Awarded	Duration
2022	Thapar Institute of Engineering and Technology, Patiala, India	Bachelor of Engineering in Mechanical Engineering	4 Years
2017	Government Model Senior Secondary School, Sector – 16, Chandigarh	Central Board of Secondary Education 12th Standard	12 Years

Experience:

Organization - McDermott International Ltd.(Gurugram, Haryana, India)

McDermott is a premier, fully-integrated provider of engineering and construction solutions to the energy industry. Our customers trust our technology-driven approach to design and build infrastructure solutions to responsibly transport and transform oil and gas into the products the world needs today. Operating in over 54 countries, McDermott's locally-focused and globally-integrated resources include more than 30,000 employees, a diversified fleet of specialty marine construction vessels and fabrication facilities around the world.

Designation - Piping Engineer
Duration - From July 2025 to Present

❖ **Project- Total Mozambique LNG (MLNG), EPC, Mozambique (June 2025- Present)**

Job Profile – I'm currently working as a Piping Engineer in MLNG project in the detailed engineering Phase , responsible for planning and execution of all the piping layout activities and deliverable as per Project and Client's scheduled deadlines, Coordination with other departments like Civil, Process and Mechanical.

- Planned weekly Piping Layout tasks like giving pipe loading input to civil, Mechanical Datasheets comments, Design Development, issued stress critical isometrics to stress team as per project schedule and coordinated with the Project engineer and other disciplines.

Designation -Associate Piping Engineer
Duration - From August 2022 to July 2025

❖ **Project- BorWIN6 , TenneT, Onshore land station, Germany (Sept 2024-Dec 2024)**

Job Profile – I worked as a Material Handling (MH) engineer under the supervision of Lead Engineer, Planned and executed detailed MH studies for the project in the 3D software (E3D), Closed client's model Review tags and delivered all the GAD to civil as per scheduled deadlines.

- I planned and designed the concept and studies for different equipment like Pump , Reactor coil etc, for their maintenance and operation in E3D software.
- Closed Client's Model review tags for the successful completion of project as per scheduled deadlines.

❖ **Project - GEVO-NET ZERO, SAF (USA) (From Sept 2023-May 2025)**

Job Profile – I worked as an area engineer in one of the process units called Dimerization unit. My role was to plan and execute day-to-day tasks with Unit lead, Design and develop model. I had to further report to Deputy (Design) lead about the current status of the Plant layout & design, involved in weekly design review and planning Design development, meeting tasks as per project schedule, reviewing vendor drawings, Mechanical and Process Data sheets review, developing piping layout in E3D software, coordination with other supporting departments like civil and instrumentation and giving input to them.

- FEED (Front End Engineering and Design) for 30% & 60% model review - As per client's requirement, we have to give the cost estimation of the project in order to covert the project into full EPC (Engineering, Procurement and Construction) and further proceed for detailed engineering phase. I have done FEED on the basis of our P&IDs (Piping and instrumentation diagram) which includes Plot plan development, Piping and equipment modelling in E3D .
- Model review tags closure as per client's requirement - Closed MR (Model review) tags of 30% model review in my area in order to optimize plant layout and model design while keeping process requirements in mind.
- Attended office meetings with Lead engineer to discuss the project execution plans and deadlines as per project requirements. For FEED phase, we have discussed various tasks like Pipe modelling count and tracking in E3D, Equipment modelling status, Nozzle orientations, Unit plot plans, MTO, aligning 3D model as per requirement, etc.
- Ensured workplace safety and quality – Doing things right first time every time as per project standards and documents , thus maintaining quality in our project .
- MTO given for cost estimation – Piping MTO (Material take off) given for cost estimation on the basis of FEED model and P&IDs. It includes Pipe length (in Feet and inches) , pipe fittings like elbow, tee , nipples and pickables items like valves, flanges etc.
- Equipment inter-spacing and Plant layout in AVEVA E3D as per GAPS standard- Followed safety distance in between equipment as per GAP and PIP standards.
- Piping design and layout in AVEVA E3D- Pipe modelling and supporting (8 inch $\geq$) in E3D as per latest issued P&IDs . It includes Piping of different equipment (Pumps, Heat exchangers, Reactor , Vertical and horizontal vessels) , fulfilling Piping layout standards and process requirements .
- Mechanical and Process Datasheets review and modelling equipment as per datasheets – Modelling and updating equipment dimensions and nozzles size and ratings in E3D as per latest Drawings, Nozzle orientations, Maintenance of equipment etc.
- Issued Stress critical isometrics - Stress critical isometrics given to stress engineers in order to check the flexibility and criticality of piping system , re- routing pipe as per stress requirements, modelling specific pipe standard supports as per requirement.

❖ **Project - IOCL MS BLOCK (EPCC) – (Barauni Refinery - INDIA) (Aug 2022 - Sept 2023)**

Job Profile - Joined Piping Layout and Design department as a Graduate Engineer Trainee in IOCL MS BLOCK project. My day-to-day activities involved reporting to Unit lead and working as an associate in Piping layout using SP3D software. This project was all about to reduce Sulphur content in gasoline from 360ppm to 35 ppm in order to achieve end product as per BS-6 norms and to increase current unit capacity to 9 MMTPA. There were two process units – (ISOM) Isomerization unit and (NHDT) Naphtha hydro treating unit. My project contribution was as follows:

- Piping layout , routing and supporting in SP3D – Modelling piping and developing layout (Small bore lines ,2 inch $\leq$) in SP3D , supporting using Piping standard supports, Clash resolution with structural members.
- Planned IFC and revision isometrics – Issued quality isometric drawings(IFC, Issued for construction) in SP3D software meeting project's weekly scheduled deadlines , Revised isometrics drawings if needed in order to optimize plant design.
- Instruments like PSV,LG/LT, Control valve drawings updating – Instruments updated as per vendor drawings (like PSV , LG/LT, Control valves, Flow meter etc.).
- P&ID yellow off and Piping markups - Given piping P&IDs markups to process department so that necessary action and modification can be done , P&IDs yellow off in order to check the piping layout in 3D with IFC P&IDs and hence obtained the optimized and correct design .
- Miscellaneous support (MS) modelling as per special requirement of piping stress engineer

Professional skills:

- SAF, LNG, Modularization, Pre-FEED, FEED (Front end engineering and design), 30%,60% Client Model review and Tags resolutions, Ergonomics.
- Piping MTO (Material Take off), Material Handling.
- Planning and Project execution ,Equipment and Piping layouts and 3D modeling ,Plant layout in AVEVA E3D and SP3D software.
- Stress critical isometrics, IFC Isometrics, Process and Mechanical Datasheets, Vendor Drawing

Industrial Training/Internship:

Organization - Federal Mogul Goetze India Ltd., Patiala, India
Designation – Industrial Trainee
Duration - From January 2021 to March 2021

I worked as an Industrial trainee in Piston's ring (Compression ring) machine shop for 3 months , 20 hours per week. It was an unpaid internship. I had to report to the Production engineer in one the machine shops called Molybdenum line. The task was to maintain the quality of production line .

- Day to day work involved was Quality control in production line using control charts. This production line had various finishing and super finishing processes like CNC Grinding, Honing, CNC Milling, CNC lathe etc. My task was to check the quality of piston rings at every 1 hour using control charts and check whether the process is under statistically controlled or not. Manual inspection was done in order to check and maintain the quality of the product.

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