

Contact

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Top Skills

Supervisory Skills
Procurement
Microsoft Office

Mahdi Zeinalzadeh

Piping Engineer / Project Coordinator
Iran

Experience

OIEC Group

Senior Mechanical / Piping Engineer
May 2019 - Present (4 years 9 months)
Tehran, Iran

OIEC Group is a leading general contractor (GC) in Engineering, Procurement, and Construction (EPC) projects, with a particular focus on Iran's Oil and Gas industry. OIEC has been operating nationwide for over three decades with a committed workforce to the success of our clients.

Key Responsibilities

- Quality assurance of Piping and Mechanical engineering documents including stress analysis, load calculation, piping design, pipe support, isometric drawing, Material-Take-Off, and technical specification and procedures.
- Liaise with client as well as suppliers and vendors to clarify technical and bid queries.
- Liaise with construction team and contractor of project to solve the technical issues.
- Address project risks from mechanical perspective by preparing weekly progress reports for Project Manager.
- Improve safety of piping system by checking relief system in P&ID and required pipe safeguarding according to ASME B31.3.
- Review storage tank dike wall capacity by considering requirements of NFPA 30.
- Review vendor documents from technical point of view.
- Prepare TBE (Technical Bid Evaluation) report.
- Prepare Plan Scope Management, Collect requirements to define scope, define scope of work by utilizing data analysis and internal and team skills, create Work Break-down Structure (WBS) and Scope base line.
- Prepare Plan Schedule Management, define activities by decomposition and Rolling wave planning techniques, Sequence activities by Precedence diagramming and Dependency determination and integration methods, estimate activity durations by using Parametric, Three-point or Bottom-up

estimating methods and develop schedule by using schedule network analysis, Critical path method or Resource optimization

- Prepare Plan Cost management, Estimate costs and determine budget by using Cost aggregation method, Historical information review or Funding limit reconciliation.

AGTP (Assalouyeh Green Tank Farm Petrochemical)

Senior Mechanical Engineer/ Piping Project Engineer

June 2015 - May 2019 (4 years)

Tehran, Iran

Asalouyeh Green Tank Farm Petrochemical is the largest petrochemical storage tank project, which is located in the area of 47 acres. The main goal of this project is the storage of products of Asalouyeh petrochemical phase II in order to export to the international markets

Key Responsibilities

- Prepare project Scope Of Work and technical part of the contract for EPC (Engineering, Procurement and Construction) projects
- Review Tender documents for mechanical works and prepare Technical Bid Evaluation reports.
- Review contractor's project programs and project risk assessments.
- Liaise with project stakeholders as well as suppliers, vendors and contractors.
- Review engineering documents and drawings to ensure meeting code and standard's requirements.
- Inspect contractor workshop to ensure quality of fabrication of the parts.
- Conduct design review and HAZOP meetings.
- Lead, coached, and motivated team members to encourage the team spirit and enhance the knowledge.
- Prepared and presented progress of mechanical works and cost reports on a weekly basis to senior management.

Sahel Engineers

Mechanical / Piping Project Engineer

July 2013 - June 2015 (2 years)

Tehran, Iran

SAHEL was established as a Project Management, Engineering, Consulting and construction (EPC) practice, however due to the changing of engineering and construction environment and the growing needs of our Clients; it became necessary to broaden the services that could be provided by SAHEL, so as to

offer multi-disciplinary engineering, management consulting and construction services under one banner.

Key Responsibilities

- Lead and supervise a team of 4 engineers and drafter.
- Prepare critical line list, Stress analysis of piping routes by Caesar II, and check equipment nozzle loads and estimate piping load on pipe racks, special supports and platforms.
- Review and endorse 3D model and piping design by Naviswork/PDMS.
- Prepare and review piping documents such as load calculation, plot plan, pipe support list, isometric drawing, MTO, MR and technical specification and procedures.
- Review tank dike wall capacity according to NFPA 30.
- Participated in P&ID review meetings.
- Review supplier and vendor documents from technical point of view.
- Pipeline route selection and prepare location classification report as per ASME B31.8.
- Review pipeline material selection, wall thickness calculation and stress calculations as per ASME B31.8.
- Prepare anchor point calculation and buoyancy calculation reports.
- Review road crossing, river crossing and crossing with existing facilities detail drawings.
- Review the location of LBV station.

Middle East Energy Development Engineering Consultant Piping Engineer

September 2007 - July 2013 (5 years 11 months)

Tehran, Iran

Middle East Energy Development Company, whose main body consists of the board of directors and staff of Tajhiz Pardazan Farayand Company, was registered in 2004 in Tehran.

The Board of Directors of the Middle East Energy Development Consulting Company, after years of activity in prominent consulting companies and contractors of national projects, first established T.P.F Company in 2001 with the aim of providing consulting and construction engineering services to Iranian and foreign consulting and executive companies. In 2004, with the aim of expanding activities, improving the quality of technical and engineering services and increasing international competitiveness, they established a consulting engineering company called Middle East Energy Development.

Key Responsibilities

- Prepare project technical specifications, piping material specification and wall thickness calculation.
- Pump Selection and hydraulic calculation
- Design storage tank as per API 650.
- Design pressure vessel as per ASME Sec.VIII.
- Prepare MTO, material requisition and TBE (Technical Bid Evaluation) report.
- Wall thickness, buoyancy and anchorage calculation.
- Provide pipeline material specification.

Education

Islamic Azad University

· (2004 - 2008)