

Hossein Babaeian

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Mechanical Lead Engineer

A Senior Mechanical Engineer with 20+ years work experience in oil, gas and petrochemical industry as engineering manager, head of mechanical engineering department and static equipment design engineer at large leading companies. Ability to manage and coordinate multidisciplinary engineering team.

Summary of Qualifications

- Experienced professional with a successful career in engineering management and design
- Manage multidisciplinary engineering department
- Manage and co-ordinate engineering activities and procurement services
- Familiar with all engineering activities, engineering documents, procurement services and interface management in EPC projects
- Co-ordinate and review the technical work of project teams
- Prepare and review contract documents, tender documents, technical proposals and evaluate tenders
- Prepare engineering progress reports and estimation of manpower forecast
- Prepare and set up change/variation order requests and change/variation order proposals
- Communicate, correspond and negotiate with clients, contractors and vendors
- Manage technical meetings and participate in engineering meetings
- Prepare and review specifications, procedures, MRs, MTOs and other engineering documents for EPC projects
- Familiar with oil & gas international design codes and standards, such as ASME BPVC, ANSI, TEMA, API, DIN, NACE and etc.
- Proficient in design of static equipment by relevant software.
- Proficient in Windows, MS-Office and Outlook
- Proficient in programming languages

Employment History

Siraf Energy Petrochemical Company, Tehran

Dec., 2018 - Present

Head of Mechanical Engineering Dept. (Static Equipment)

- Review all engineering documents related to static equipment
- Review and evaluate Vendor quotations and prepare Technical Clarification Letters (TCL)
- Review Vendor documents such as VPIS, strength calculation books and reports, data sheets, drawings, procedures and etc.
- Co-ordinate static equipment's issues with other engineering disciplines and QC department
- Co-ordinate static equipment's issues with construction field and review Field Technical Queries (FTQ)
- Prepare and review engineering progress reports and estimation of manpower forecast
- Communicate, correspond and negotiate with Contractors/Vendors and Participate in technical meetings
- Review Change/Variation Orders (VO)

Engineering Manager / Head of Mechanical Engineering Discipline

- Manage multidisciplinary engineering project team in *VLCC and LNG New Building and Repair Shipyard Project (Procurement services)*
- Co-ordinate engineering activities and procurement services
- Co-ordinate and review the technical work of project team
- Communicate, correspond and negotiate with clients and vendors and participate in meetings
- Prepare and review contract documents, technical proposal and evaluate tenders
- Prepare and set up Change/Variation Order Requests (VOR) and Change/Variation Order Proposals (VOP)
- Supervise engineers, review and approve designs, calculations and cost estimates in mechanical discipline
- Prepare and review Specifications, Procedures, Master Document Register lists (MDR), Material Requisitions (MR), Material Take Off lists (MTO) Technical Proposals, Technical Clarification Letters (TCL), Technical Bid Evaluations (TBE) and other engineering documents for EPC projects
- Review mechanical and thermal design of static equipment such as heat exchangers, pressure vessels, storage tanks, chemical packages and etc.
- Review vendors' documents such as VPIS, data sheets, shop drawings, procedures and etc.
- Review and reply to Field Technical Queries (FTQ)

Energy Industries' Engineering and Design (EIED), Tehran

Sep., 2007 – Feb., 2009

Mechanical Lead Engineer and Senior Design Engineer

- Co-ordinate engineering services in project as a mechanical lead engineer
- Communicate, correspond and negotiate with clients and vendors and Participate in technical meetings
- Review mechanical and thermal design of static equipment such as heat exchangers, pressure vessels, storage tanks and etc.
- Prepared and review engineering documents for EPC projects such as specifications, data sheets, engineering drawings, Master Document Register lists (MDR), Material Requisitions (MR), Material Take Off lists (MTO)
- Review vendors' technical proposals and prepare Technical Clarification Letters (TCL) and Technical Bid Evaluations (TBE)
- Review vendors' documents such as VPIS, data sheets, shop drawings, procedures and etc.

Azarab Industries Company (Tehran Office), Tehran

Aug., 2001 – Sep., 2007

Senior Design Engineer

- Perform mechanical design for static equipment such as pressure vessels, heat exchangers, storage tanks and etc.
- Prepare and issue fabrication drawings for static equipment such as General Arrangement Drawings (GAD), External/Internal Attachment Drawings, Ladder & Platform Detail Drawings and etc.
- Prepare Purchase Order Specifications (POS) for static equipment
- Prepare technical proposal for static equipment
- Participate in technical meeting

Projects

- VLCC and LNG New Building and Repair Shipyard Project (Detail Design-P) as Engineering Manager
- South Pars Gas Field Development Project-Phase 14 (FEED and Detail Design-EPCC) as Head of Static Equipment Discipline
- 5000 MTPD SIRAF Methanol Plant, Bandar Dayyer as Head of Mechanical Engineering Dept. (Static Equipment)
- South Pars Gas Field Development Project-Phases 17&18 (Detail Design-EPC) as Senior Static Equipment Engineer
- GTL Plant-1000 BPD Project (Detail Design-MC) as Senior Static Equipment Engineer
- Khuzestan Refinery Project (Basic Design) as Static Equipment Leadengineer
- Siri Island and Gas Gathering & NGL Recovery Project (Detail Design-EPC) as Senior Static Equipment Engineer
- TZORC GPP Project (Detail Design-EPC) as Senior Design Engineer
- Tehran Refinery Products Upgrading Project (Detail Design-EPC) as Senior Static Equipment Engineer
- Hormuz Oil Refinery Project (Detail Design-EPC) as Senior Static Equipment Engineer
- Salman Platform Project (Detail Design-Mechanical Design and Construction) as Senior Design Engineer
- South Pars Gas Field Development Project-Phases 9 & 10 (Detail Design-Mechanical Design and Construction) as Senior Design Engineer
- South Pars Gas Field Development Project-Phases 9 & 10 (Detail Design-Mechanical Design and Construction for Piping Pots) as Senior Design Engineer
- HIPS Project, Tabriz Petrochemical Co. (Detail Design-FEM Analysis) as Senior Design Engineer

Education

<i>K.N. Toosi University of Technology, Tehran</i> Master's Degree in Mechanical Engineering	1998 - 2000
<i>K.N. Toosi University of Technology, Tehran</i> Bachelor's Degree in Mechanical Engineering	1993 - 1998

Certification

Thermal & Mechanical Design of S&T HX by HTRI & HTFS <i>NPI, Tehran</i>	2013
NACE MR 01-75 <i>IPMI, Tehran</i>	2012
Risk Management Analysis by Pert Master Software <i>IPMI, Tehran</i>	2011
ASME Sec. VIII Div. 1 <i>EIED, Tehran</i>	2013
ASME Sec. VIII Div. 1 & 2 <i>ISME, Tehran</i>	2006
Pumps & Compressors <i>IPMI, Tehran</i>	2015

Computer Skill

Mechanical & Thermal of Oil & Gas Equipment Design Software:
PV-Elite, Compress, Nozzle Pro, Aspen HTFS+ (B-Jac) and HTRI

FEM Software:
Ansys, Algor and Nisa II

MS Office:
Excel, Access, Word, PowerPoint and Publisher

Modeling & Drawing Software:
Auto CAD and MDT

Writing Computer Program:
QBasic, VB, VBA and Matlab