

Holds a B. Sc. in Mechanical Engineering and a Diploma of Natural Gas Processing. Has about 10 years hands-on experience working in piping design field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 22/09/1985
Gender : Male
Marital Status : Single
Residence : Currently KSA

EDUCATION

- : B. Sc. in Mechanical Engineering, Ain Shams University, 2007
- : Diploma of Natural Gas Processing, Cairo University - Mining and Petroleum Engineer division, 2011

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

- : Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Completed Post-Engineering specialization course in ASME B31.8 for Gas Transmission Pipeline, Specification and codes from ENPPI.
- : Completed Post-Engineering specialization course in API 560 from German Lloyds.
- : Completed Helicopter under Water training (HUTE) and marine Survival Training from Arab Academy for Science Technology & Maritime Transportation.
- : Technical Project during Piping Training:
 - Pipe line design.
 - Welding inspection and Non Destructive test.
 - Specification and codes.
 - HYSYS for process modelling.
 - Gas Dehydration and Sweetening.
 - Pump technology & troubleshooting.
 - Fundamentals of Mechanical Engineer.
 - Oil & Gas Process / Facilities Fundamentals.

- Cause and Effect and Failure analysis.
 - MS Project.
 - Welding inspection and Non Destructive test.
- : Trainings conducted by GUPCO:
- Safety Training Observation Program "STOP".
 - Radiation training course.
 - Environmental management system training course.
 - Safety courses in Permit to work.
 - Safety courses in Isolation tasks.
 - Safety courses in Risk Assessment.
 - Occupational health courses.
 - H2S Training Course.
 - First Aid Training.
 - Manual Handling Training by Sparrow Com.
 - Fire Fighting Training Course.
 - Lifting & Slings Training Course.
 - Helicopter Safety Training Course.
 - Working cording to Gulden Rules course.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2017 till now
- Employer** : Intertek Company Aramco Reprehensive for Khurais Pipeline, KSA
- Job Description** : Lead the engineering team to perform the following functions:
- Conduct pipe stress engineering of Pipeline systems as per ASME, ANSI B31.4 code needs using Caesar II software program.
 - Perform evaluation of nozzle loads or vessels stress utilizing WRC 107/297 capability of Caesar II program.
 - Develop engineering computations and evaluations.
 - Conduct complex engineering tasks along with key engineering work properly and efficiently.
 - Ensure to extract engineering data from CAD drawings as well as computer models.
 - Coordinate design of exclusive pipe supports as needed.
 - Ensure to complete different assignments like drawings, parameters and varied materials apt for procurement plus construction purposes.
 - Interact frequently with various engineering disciplines and departments.
 - Develop detailed requisitions for pipe stress equipments and materials.
 - Review vendor drawing submittals and conduct technical bid evaluation.
 - Develop and issue parameters, data sheets and varied construction documents.
 - Guide technically to CAD designer or drafters and engineers working on same pipe stress project.
 - Perform as advisory facility to senior management staff on engineering pertinent matters.
 - Support lead pipe stress engineer to develop and review pipe reinforcement job parameters.
 - Provide magnitude of hydrostatic and operating loads acting on guides and supports.

- Dates** : From 2015 till 2017
- Employer** : GS Engineering & Construction
- Project** : ERC Refinery Project, Egypt
- Job Description** :
- Piping Hydrotest.
 - **PRIMARY DUTIES AND RESPONSIBILITIES:**
 - The Hydro test Superintendent is responsible to ensure the construction of the systems is completed in accordance with prescribed information prior to pneumatic and hydrostatic pressure tests being carried out for all test packages.
 - Prepare technical report, lists of outstanding items on a punch list submits it for construction to carry out the required test.
 - Monitor the hydro-testing (hydrostatic and pneumatic) and handle reports on the completion of tests and to supervise line cleaning after hydro test.
 - Responsible for the examination of systems to ensure completeness, punch lists preparation, and readiness for hydro tests activities.
 - Interface with equipment, piping, instrumentation, electrical inspectors, civil/structural inspectors, field engineer and other field superintendent before proceeding for hydro tests of systems.
 - Interface with the client's Quality Assurance representative for his presence at the test.
 - Review the documentation relevant to the systems and ensures the systems are constructed in accordance with the prescribed information – drawings, specifications and vendor information.
 - Coordinate with Project Manager and supervise the preparation of test activity to ensure all deficiencies are identified and punch lists are prepared.
 - When the systems are to be tested, ensures the systems limits are identified, that necessary test equipment is in place and reviews completion of punch list items to ensure hydro tests may proceed.
 - Review and approve subcontractor and supplier documentation including quality plans, inspection and test plans, manufacturing/welding procedures, inspections and test procedures and manufacturing records.
 - Coordinate and monitor the hydro tests and reports on the completion of hydro tests.
 - Demonstrate a professional work ethic and actively participate as a member of the Discipline Workface Planning Team.
 - Interface with the Discipline Planning Teams to understand the construction schedule.
 - Assess the impact of inefficiencies on the successful completion of planned activities and adjust the plan as required.
 - **SECONDARY DUTIES AND RESPONSIBILITIES:**
 - Comply with the highest level of safety during all stages of project execution to avoid any type of accidents. Take reasonable care of own health and safety and that of others in the workplace.
 - Comply with all statutory requirements connected with the implementation of project.
 - Assist in the proper closeout of project including transmittal of final documentation to client.

Dates : From 2013 till 2015

Employer : KHALDA PETROLEUM COMPANY (KPC), Joint Venture with Apache Corporation

Job title : AG & RZK Projects Site Manager

Job Description :

- Handling of multidisciplinary engineering/construction activities related to setting up of new facilities, expansions, upgrades and modifications for onshore oil and gas fields, long distance pipelines, and oil & gas process plants. Experience in handling major techno-commercial activities from SOR to reviewing FEED & deliverables, proposing job breakdown, cost estimate, feasibility study, bids evaluation, project planning and scheduling, and implementation of HSE programs, contract administration and construction management. Good knowledge with major international codes and standards for these projects and in implementation of projects in operating plant environments with minimum shutdowns and interruptions.
- Construction field:
 - Installation of Gas, Oil and water injection flow lines with different materials (Duplex St. St., carbon steel...etc.).
 - Supervise the maintenance of the flow lines.
 - Installation of Launchers and Receivers.
 - Installation of new oil facilities.
 - Sharing in the shut downs work of Gas plants such as Salam, Tarek and South Umbaraka Gas Plants.
 - Installations of oil, water and gas manifolds.
 - Supervise the quality control job for the welding inspection.
 - Installation of oil storage tanks with several capacities (55,000 BBL, 25,000 BBL, 10,000 BBL & 4,000 BBL ...etc.).
 - Construction and commissioning activities, welding, coating, hydro-test....etc.).
- Also familiar with relevant international codes and standards including international company standards, e.g. specialist in piping activities including hot tapping of existing facilities and related safety requirements.

Dates : From 2008 till 2013

Employer : Gulf of Suez Petroleum Company (GUPCO)

Job Description :

- Project Discipline Engineering.
- All the plant design & piping engineering and design activities (see deliverable list for details) required for the successful completion of the assigned project/proposal.
- Perform Quality checks on plant design & piping engineering documents issued by the Junior Plant Design & Piping Engineers.
- Perform the interdisciplinary checks on the engineering documents as foreseen by the engineering procedures.
- Perform checks and reviews of documents provided by external agencies and Technology providers (licensors).
- Coordinate the plant design & piping activities of the internal team and of the subcontractors, technology providers (licensors) or other external stakeholders.
- FABRICATION ACTIVITIES (2008 – 2011):
 - Ras Shukheir anode retrofit skids fabrication:

- These skids used in cathode protection of pipeline.
- Review the fabrication design of anode retrofit skids to be suitable to connect overcome corrosion.
- Perform the interdisciplinary checks on the engineering documents as foreseen by the engineering procedures.
- Perform checks and reviews of documents provided by external agencies and Technology providers (licensors).
- Compliance with the applicable standards, specifications, procedures and good engineering practices with special regard to HSE and Quality.
- Requisitions (WR) relevant to Mechanical, Painting and Insulation activities.
- MTO and requisitioning procedure and 3D-Model.
- Fabrication Oil Pollution Tank Lifting Frame For 2ea 300bbl & 2ea 100bbl Tanks:
 - Study the project scope of work.
 - Requisitions (WR) relevant to Mechanical, Painting and Insulation activities.
 - MTO and requisitioning procedure and 3D-Model.
- Heli-Deck Safety Net:
 - Study the project scope of work.
 - Make review design of Worley Parsons.
 - Follow the Fabrication steps.
 - Requisitions (WR) relevant to Mechanical, Painting and Insulation activities.
 - MTO and requisitioning procedure and 3D-Model.
- Fab. Foam riser of tank 301 and curbed pipes:
 - Study the project scope of work & specs for piping scope.
 - Making Cadworks Review design and match the standards rating and schedule.
- FAB RISER MECHANICAL REPAIR 12" @ M-7:
 - Hydrostatic test diagram.
 - SIS – safety instruction sheet.
- Fab. Foam riser of tank 312 and curbed pipes:
 - Study the project scope of work & specs for piping scope.
 - Work Requisitions (WR) relevant to Mechanical, Painting and Insulation activities.
- Sand Blasting 60 / pipe 18" smls:
 - Follow the Sand Blasting and UT-steps..
 - Hydrostatic test diagram.
 - SIS – safety instruction sheet.
- GS-327 REPLACE WIND BREAKER (15 EA):
 - These used to prevent people from wind at platform.
 - Making 3D Model Review design.
 - Prepare the detailed engineering, shop DWGS & BOQ.
- S / Ali BW & C Stairs:
 - Making Cadworks Review design.
 - Work Requisitions (WR) relevant to Mechanical, Painting and Insulation activities.
- GS 327 PHASE II PROJECT (chemical skid):
 - These Skid used for supply the platforms with Varies types of chemical.
 - Study the project scope of work.

- Prepare the skid piping detailed DWGS.
 - Issue and review the BOQ.
- R-6 Spool Fabrications for Rehab Project with Enppi:
 - Study the project scope of work & specs for piping scope.
 - Issue and review the plant general arrangement.
 - Issue and review piping isometrics.
 - Issue and review material take off.
 - Making Cadworks Review design and match the standards Rating and schedule.
 - Prepare the detailed engineering, shop DWGS (piping plan & isometrics) & BOQ.
- Boot landing:
 - Study the project scope of work.
 - Issue and review material take off.
 - Carrying out the required site visit to locate the tie-ins position, type, size and rating and choose the proper Structure to be Replace.
 - Work Requisitions (WR) relevant to Mechanical, Painting and Insulation activities.
- Riser guard:
 - That use to prevent riser from damage.
 - Issue and review the plant general arrangement.
 - Issue and review material take off.
- Process area Heat Exchanger inlet modification:
 - Issue and review the stress analysis (selection of the critical line list, then doing the required formal stress analysis using Caesar II and issued the stress analysis report to Piping discipline).
 - Plan & profile for the Piping.
 - Carrying out the initial site visit for the tie-ins locations, and sizes.
- Sep. 2011 – Jul. 2012 (11 months) >>> PIPING ENGINEER Worley Parsons:
 - Project: Basic & Detailed Design and Engineering of a New 150,000 Bbl Oil Storage Tank Proposal - Petrogulf Company) - Egypt.
The responsibility is to develop the followings:
 - The required piping man-hours to achieve the basic design and detailed design of the Piping network required to connect the new 150,000 Bbl Oil storage tank to the existing storage facilities piping network.
 - Equipment Layout Plan (Unit Plot Plan).
 - Piping Assembly Drawings Key Plan.
 - Piping routing studies and Stress analysis by Caesar ii 5.1.
 - Project: Khalda Oil And Gas Company Proposal for Basic & Detailed Design for Propane tank Projects – Egypt.
The responsibility is to develop the followings:
 - The required piping man-hours to achieve the basic design and detailed design of the Piping.
 - Isometric drawing & bill of materials.
 - As-built drawings of existing piping.
 - Piping material take off for estimation and purchasing.

- Dates** : From 2007 till 2008
- Employer** : PICO Industries (EGYPT)
- Job title** : Mechanical Design Engineer
- Job Description** :
- I was responsible for installation of various instruments devices like (transmitters – RTD – thermocouple – pressure switch – level switch – H2 analyzer – CO2 analyzer – UBS ...).
 - Installing ultrasonic level indicator for the fuel oil tanks.
 - I was a member in the start-up and commissioning team and made the necessary punch list.
 - I was a member in the team which reviews all the logic of control system.
 - I was responsible for installation of all the control panels and arrange the wiring.

Technical Proficiencies:

- Software: CAESAR II V5.2, AutoCAD 12, AutoCAD Plant 3D 2012, Microsoft Office, MATLAB, Microsoft access, Coraldraw-12, Front page, MS Project, Cadworks (3D Design Modelling, Assembly, Drawing Software), (Isometric and PID), PDMS (3D Design Modelling, Structure, Equipment, Piping and drafting Drawing Software), Solid Works (3D Design Modelling, Assembly, Drawing Software) Pipesim (Simulation of Pipe Phase), Shlumberger, PIPEPHASE, HYSYS7.2 (Hydrocarbon simulation software), PROII, CatiaV5 R16, Ansys V8.
- Knowledge of Piping & Insulation thickness, Pipe rack width calculation, selection of materials for construction, calculation of stress analysis, CAESAR II 5.2 & load case preparations.
- Conversant with international codes and standards like ASME, API, ASTM, ANSI, EN, BS, etc.
- Understanding of PDMS (Plot plan, Equipment layout, Pipe Rack layout and Piping layouts).

- Field of experience** : As Senior Piping Engineer at Gulf of Suez Petroleum Company (GUPCO) joint venture with BP (British Petroleum):
- Office activity:
 - Review of P&ID & preparation of Line list, Valve list, Equipment list and Specialty items list.
 - Selection of suitable piping materials & valve types as per process requirement.
 - Performing Detail Engineering - Data Sheet Preparation & Approval from the customer / consultant, Technical Bid Evaluation, Co-ordination with vendor for technical issues, Review of Drawings & Test Certificates
 - Preparation of Pipe Rack header piping – list & routing.
 - Finalization of Pipe Routing as per respective Code & Project standard.
 - Checking & approval of Isometrics for construction (P&ID Check, Line Routing, Support Check, Special requirement checks & BOM).
 - General:
 - Handling mechanical & piping technical queries from site.
 - Mentor & guide 3D CAD designers.
 - Coordination with various disciplines like equipment, instrumentation, civil, design, layout, etc.

- Coordination with vendors for technical queries & clearance of all in-line components.
- Interpret Vendor drawings/information.
- Develop accurate 3D & isometric drawings by applying practical design knowledge.
- Review of P&ID, Layouts, GADs, Isometrics & various piping related drawings and documents.
- Projects undertaken:
Design, Selection & Procurement of all inline mechanical piping components in an EPC Project for Rehabilitation of 9 Offshore complex 147 Satellites.
 - Project title: J-10 Offshore Platform Company (GUPCO) 2008-2011.
 - Project title: Process Onshore Area Company (GUPCO).
 - Project title: Badri Offshore Platform Company (GUPCO).
 - Project title: Utilities Offshore and Onshore Platforms Company (GUPCO).