

107058-MEC-14DKV-E-2007
Senior Mechanical Piping Design Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 11 years of work experience in Oil & Gas Plants (Gas Separation, Refinery and Petrochemical) with multinational EPCM companies, Professional different activities related to Piping Engineering works such as Piping Design, Piping Layout, Plant 3D Modeling, Field Engineering and Test Packages review.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Residence : Cairo

EDUCATION

: B. Sc. in Mechanical Power Engineering, Helwan University, 2007

LANGUAGES

Arabic : Native Language
English : Fluent
German : Basics

COMPUTER SKILLS

: Windows, MS Office, Internet

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Nov. 2017 till Aug. 2019

Employer : DNV-GL "PMC"

Project : MOSTROD Refinery Project

Egyptian Refining Company is executing ERC Refinery Project for upgrading Atmospheric Residues of Cairo Refinery by constructing major three new units, VDU (Vacuum distillation unit), HCU (Hydrocracker unit) and DCU (Delayed Coker unit). Middle distillate and Naphtha produced from each unit and Cairo Refinery will be treated at newly installed NHT (Naphtha hydrotreating unit) and DHT (Distillate hydrotreating unit). Additionally, Reformer including CCR unit to produce reformat will be installed. This project includes Utility and Offsite facilities to fully support new units to process targeted feed and products. Also, integration with existing facilities shall be developed. The unit is summarized as bellow. For the unit capacity, refer to design basis of each process units. The scope of work is based on KBC configuration including the utilities and offsite.

Job title : PMC Senior Field Piping Engineer

Job Description :

- To manage EPC deliverables on behalf of the Owner to supervise and manage all Process related works undertaken and executed by the EPC Contractor/ subcontractors.
- Ensure that all piping design works are done as per client standards, project specifications, stress analysis requirement and process requirement.
- Review Test Packs submitted from Contractor from engineering point of view for issuing to site walk down.
- Replying Concession requests from contractor related to engineering issues.
- Reviewing Field Change Notice (FCN) from contractor.
- Replying all PLWD punches related to engineering from commissioning team.
- Achievement: Test Packages engineering quality was Improved and releasing many subsystems for mechanical completion.

Dates : From Jun. 2016 till Oct. 2017

Employer : ELSEWEDY PSP "EPC"

Projects :

- Beni Suef Combined Cycle Power Plant (4800MW) (BOP Systems)
- Al Aweer Simple Cycle Gas Plant (Tender Project)

Job title : Senior Piping Design Engineer / E3D Administrator

Job Description :

- Plot Plan and Layout preparation.
- Piping study.
- Equipment 3D modelling using AVEVA E3D model.
- Steel structure 3D modelling using AVEVA E3D model.
- Piping design using AVEVA E3D model.
- Piping Supporting system using AVEVA E3D MDS module.
- Piping General Arrangement generation.
- Nozzles orientation and its drawings generation.
- 3D Model review (30%, 60%, 90%).

Dates : From Jun. 2015 till May 2016

Employer : GS E&C (Main Contractor)

Project : MOSTROD Refinery Project

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Job title : Senior Piping Engineer

Job Description :

- To manage EPC deliverables on behalf of the Owner to supervise and manage all Process related works undertaken and executed by the EPC Contractor/ subcontractors.
- Ensure that all piping design works are done as per client standards, project specifications, stress analysis requirement and process requirement.
- Review Test Packs submitted from subcontractor from engineering point of view for issuing to site walk down.

Dates : From Jan. 2014 till May 2015

Employer : RPSE "PMC"

Project : South Pars Gas field development, Phases 17 & 18 LPG Gas Plant

- South Pars gas field is the largest independent gas reservoirs in the world lying on the territorial border between Iran and the State of Qatar in the Arabian Gulf. It is one of the country's main energy resources.
- The under development phases of South Pars gas field mainly consist of offshore facilities, products transfer pipeline to onshore facilities, onshore facilities, gas transfer pipelines to the overall networks, export facilities for exporting gas condensate, LPG and Sulfur.

Job title : PMC Senior Field Piping Engineer

Job Description :

- To manage EPC deliverables on behalf of the Owner to supervise and manage all Process related works undertaken and executed by the EPC Contractor/ subcontractors.
- Ensure that all piping design works are done as per client standards, project specifications, stress analysis requirement and process requirement.
- Review Test Packs submitted from Contractor from engineering point of view for issuing to site walk down.
- Replying Concession requests from contractor related to engineering issues.
- Reviewing Field Change Notice (FCN) from contractor.
- Replying all PLWD punches related to engineering from commissioning team.
- Achievement: We put the gas plant on track, Gas Compressor unit was completed and sweet gas delivered to the main pipeline.

Dates : From Dec. 2011 till Sep. 2013

Employer : CB&I "EPC"

Projects :

- Reficar Refinery Project (Refinería de Cartagena S.A.) using PDS
- Gorgon Project-Barrow Island LNG Plant (Australia)

Job title : Piping Design Engineer / PDMS Administrator

Job Description :

- Piping Routing (Critical & Non Critical) according to P&ID requirements.
- Supporting system creation for non critical piping.
- Modeling and layout for Equipment.
- Piping General Arrangement generation.
- Nozzles orientation and its drawings.
- 3D Model review (30%, 60%, 90%).

Dates : From Nov. 2009 till Nov. 2011
Employer : ThyssenKrupp Industrial Solutions "EPC"
Projects :

- Mopco EAGRIUM (AVEVA PDMS)
- FEED/Detail Egyptian Fertilizers Company (EFC) I & II Revamp (AVEVA PDMS)
- FEED/Detail AlexFert Ammonium Sulphate Plant (AVEVA PDMS)

Job title : Piping Design Engineer
Job Description :

- Preparation of the underground coordination plan.
- Underground piping routing.
- Preparation of Tie in Points with the existing piping.
- Layout and modeling of the steel structure.
- Pipe Rack design and modeling.
- Layout and modeling of equipment (Pumps, Pressure Vessels and Heat Exchangers).
- Above ground process piping (critical & non critical) routing.
- Preliminary supporting system to stress team.
- Preparation of equipment arrangement, civil info drawings and steel info drawings.
- 3D Model review (30%, 60%, 90%).

Dates : From May 2009 till Oct. 2009
Employer : KAHROMICA (Subcontractor)
Project : Cairo West Power Plant, Boilers Package
Job title : Field Piping Engineer
Job Description :

- Technical support for site.
- Piping site modifications.

Dates : From May 2008 till Oct. 2009
Employer : EVRmaC (AVEVA PDMS Agent)
Projects :

- NUBARIA III Power Plant
- EL-TEBBIN Power Plant
- SIDI KRIR Power Plant
- EL-ATF Power Plant
- CAIRO WEST Power Plant

Job title : Piping Design Engineer
Job Description :

- Small Bore Piping Design.
- Supporting system for piping (critical & non critical).

Field of experience :

- Piping Design.
- Piping Layout.
- FEED Engineering.
- Detail Engineering.
- Plant 3D Modelling with different software (PDMS, E3D, PDS, SP3D).
- PDMS / E3D Administration.
- Piping Material Classes upgrading.
- Field Engineering.
- Site modifications procedures.
- Hydro Test Packages activities.

- Project Execution.
- Skills:
 - Experience in dealing with the international codes and standards such as ASME, ASTM and API.
 - Experience in dealing with the 3D modeling systems (PDMS, E3D, PDS, SP3D and AutoCAD Plant 3D) and different related software such as MicroStation.