

Holds a B. Sc. in Mechanical Power Engineering and has more than 5 years hands-on experience in the design field reflecting pioneering experience and career progression; gained a worthwhile experience through working in different firms and industries; Oil & Gas and Electro-Mechanical. His current specialty involves piping engineering, Natural Gas networks analysis & PRMS design, Code Calculations; and wall thickness for internal and external pressure as per referenced ASME standards.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 30/09/1989
Gender : Male
Marital Status : Single

EDUCATION

: B. Sc. in Mechanical Power Engineering, Helwan University, 2011

LANGUAGES

Arabic : Native Language
English : Very Good
German : Basics

COMPUTER SKILLS

: Windows, MS Office, Internet
: AutoCAD 2D
: AutoCAD Plant 3D
: SynerGEE Gas software
: PDMS software

TRAINING COURSES AND CERTIFICATIONS

: Pumps installation, troubleshooting & maintenance at OGS (Oil & Gas Skills) supported by site visit to EMC (Egyptian Maintenance Company) which specializes in maintenance and troubleshooting business by sector.
: Hydraulic essentials & pump maintenance and troubleshooting at ITC (Industrial Training Center).
: Leadership and managing people, instructed by Mr. Mohamed Essa (Gazing Performance Systems UK Associate in Egypt).
: Presentation Skills at Zedny.
: German: level A1.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Aug. 2014 till now
Employer : TAQA Arabia – Egypt
Job title : Design Engineer
Job Description :

- Utilize network analysis software to analyze the network model (SynerGEE 4.3). Apply design parameters with respect to supply tail and end pressures, gas velocity and the ways in which they affect design, etc.
- Design, wall thickness calculation for pipes, material selection, material take off and component selection for pressure reduction and metering station.
- Using PDMS / AutoCAD Plant 3D to make the appropriate equipments & piping modeling for the gas pressure regulation stations plants (PRMS).
- Preparing technical studies for feeding new cities and factories by Natural Gas.
- Issue Hazardous Area Classifications drawings according to appropriate standards.
- Apply appropriate codes and standards, together with approved design basis philosophy, during detailed design of gas transmission, distribution and utilization facilities.
- Helping in the installation process including PRMOS installation, external and internal construction till commissioning.
- Helping in issuing tender documents, follow up with the clients, and reply on technical clarifications if any.

Dates : From Aug. 2013 till Jul. 2014
Employer : Deutschland Technology Co. – Egypt
Job title : Design Engineer
Job Description :

- Leading a team consists of four colleagues working together on projects.
- Managing the works between my team & scheduling the project with my managers.
- Create concept design of the project according to NFPA 750 CODE & MARIOFF - HIFOG water mist corporative system.
- Pumps, valves and sprinklers selection according to the application.
- Make hydraulic calculation using "FLUID FLOW" software which ensures the accuracy of the design.
- Calculate suction head pressure losses using "PIPE FLOW EXPERT" which helps in choosing the suitable feed water pump for the project.
- Design detection system suitable for the application – selection of smoke, heat and flame detectors.
- Using the "ASD PIPE FLOW" software to make sure that the detection system designed is efficient enough for the project.
- Helping in preparing the project's Shop drawing.
- Produce the project BOQ & submittal documents for project's completion.
- Produce weekly progress reports.
- Estimating risks which we may face and discuss it with my managers and the owner.

- Dates** : From Apr. 2012 till Jul. 2013
- Employer** : Raya for electromechanical projects – Egypt
- Job title** : Site Engineer
- Job Description** :
- Review, produce and submit technical documents for the project's completion.
 - Coordination between all resources (subcontractors, suppliers. Workmanship ...etc.).
 - Negotiate with subcontractors and preparing their contracts.
 - Scheduling & monitoring the Progress of the works.
 - Supervise the work performed by the subcontractors and inspect the subcontractors' work for quality and to ensure that it adheres to the project's specifications and according to the time schedule.
 - Act as a liaison between different parties working on the project, coordinate all MEP trade workers with subcontractors and project team, as well as manage communication between the subcontractors, field staff, project team and clients.
 - Prepare monthly owner/subcontractor invoices.
 - Produce weekly and monthly Mechanical progress reports.
 - Attending all MEP meetings.
 - Helping in preparing work shop, composite, as-built drawings and Time schedule.
- Field of experience** :
- Familiar with ASME standards (B31.3, B31.8) and IGEM (TD3, TD13).
 - Natural Gas Networks Analysis (High, medium and low pressure networks).
 - 3D Modeling for equipments & piping using PDMS & AutoCAD 3D Plant.
 - Preparation of technical specification and design calculations.
 - Fluid networks computation.
 - Tender documents preparation.
 - Issuing complete technical studies.