

Junior Plumbing & Firefighting Systems Design Engineer

Holds a B. Sc. in Mechanical Power Engineering and has over 2 years experience in plumbing and firefighting systems design and shop drawings.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Mechanical Power Engineering, Ain Shams University, 2021

LANGUAGES

Arabic : Native Language
English : Very Good
German : Basics

COMPUTER SKILLS

: Windows, MS Office, Internet
: Revit
: AutoCAD
: Civil 3D
: Elite
: Navisworks Manage
: Revizto
: HAP
: Duct Sizer
: SewerGEMS
: WaterGEMS
: Solid Works

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Dec. 2021 till now
Employer : MAAP Electro-Mechanical Engineers
Job Description :

- Junior Plumbing & Firefighting Systems Design Engineer (Cairo, Egypt):
 - Designed and prepared space allocation, schematic, DD, pump room, toilet details, tender drawings, riser diagrams, and calculation

- sheets for more than 25 projects from different usage (residential, commercial, administrative, mixed use, hotels, entertainment and industrial).
- Prepared shop drawings and installation details for more than 5 projects using AutoCAD according to material submittals and site conditions such: Alex University Chad Branch, Servier Office in City Stars, Millennium Hospital I Dokki, Cityclub mall in El-Shorouk city and AL-AML factory in 10th of Ramadan (CAD).
 - Contributed and assisted colleagues in shop drawings up to LOD 350 using REVIT such: ZED Compound, El-Alamin towers, Medi-Town Health Park and Hacienda West senior chalet type (REVIT).
 - Infrastructure Technical Office Engineer (Riyadh – KSA, Qiddya Water Theme Park) (onsite from Apr. 2023 till Jul. 2023):
 - Modelled Potable Water & Irrigation infrastructure networks with all its components Using Autodesk CIVIL 3D.
 - Prepared Profiles, fittings schedules, installation details drawings, Material Take-off schedules.
 - Prepared excavation trench corridors for all infrastructure utilities.
 - Revised and Updated IFC calculations model for Potable Water & Irrigation infrastructure networks to be approved using WaterGems.
 - Coordinating Potable Water & Irrigation networks clashes with other infra utilities using Navisworks Manage.
 - Coordinating Potable Water & Irrigation networks clashes with structure and landscape and buildings shop drawings Using Revizto.
 - Applied main contractor and consultant valid comments in addition assisting and providing site engineers with any unclear necessary information.
 - Work experience:
 - Designed and prepared a full tender package for high pile storage with 15 m height and more than 10,000 m² area (10th of Ramadan Smart Warehouse).
 - Designed and modelled and coordinated more than 6 projects using REVIT with LOD 300 such: (IL Monte Galala club house with 2 swimming pools, Jaya Business Complex Mall, SODIC E STATES buildings. I-HUB office building at ASU, Cairo Gate Villa etc.).
 - Supplied a full pump room and supervised its installation as a consultant engineer for Canyon Plaza Mall.
 - Designed a full filtration and circulation system for infinity & skimmer and overflow type of swimming pools with modelling the overall system on REVIT.
 - Prepared Civil Defense and Basics of design report.
 - Prepared As-built drawings for water treatment plant and compressed air system for LOGIX Stone Factory and prepared the reports for efficiency of existing network and the solution for the effect of adding new equipment on water network and compressed air network using hydraulic calculations on ELITE.
 - Prepared design drawings and BOQs and calculations for Compressed air system for Body & Paint Workshop in El-Sheikh Zayed and Audi Sales & Maintenance agencies Heliopolis & Abou Rawash Branches.

Dates : From Oct. 2021 till Nov. 2021
Employer : Egypto Energy for Petroleum Services
Job title : Firefighting Technical Office Engineer (Internship)
Job Description :

- Preparing clarifications issues to be sent to client for the missing, contradicting and confusing issues related to the tender.
- Receiving and evaluating suppliers, manufacturers and subcontractor's technical & financial offers and checking compliance with the tender requirements.
- Preparing the technical and commercial proposals.
- Designing and hydraulically calculated FM200 & CO2 Fire suppression systems to server, data, electricity rooms.
- Designing and hydraulically calculated water spray cooling system and foam fire suppression system (oscillating monitors and foam chambers) for refinery tanks.
- Supplied firefighting equipment to Petrojet warehouse in Mostorod.

Dates : From Mar. 2021 till Sep. 2021
Employer : Turbotech for Construction and Industries
Job title : Site Mechanical Engineer
Job Description :

- Designed, implemented, and quantity surveyed mechanical works (plumbing, firefighting and HVAC) in new Correctional and Rehabitational Centre (Wady El-Natroun new jail).
- Created shop drawings layout for plumbing works.
- Was responsible for contractors' invoices and progress report.
- Performed scheduled service work, installations, testing.
- Tested operation and performance of plumbing works.
- Performed quality mechanical drawing checks to confirm safe, compliant and cost-effective design criteria.
- Created weekly progress report and completing subcontractor's extracts.
- Diagnose and troubleshoot technical issues on start-up and commissioning.

Field of experience :

- Approximately 1-year experience in plumbing and firefighting implementation an installing works in Wady El-Natroun new jail.
- Prepared design drawings and BOQs and calculations and reports for more than 25 plumbing and firefighting projects according to international and local codes.
- Prepared shop drawings and installation details and supplied material as a Technical Office Engineer from head office.
- Designed and modelled using REVIT MEP an infinity and skimmer type complete swimming pool including mechanical room, pool water inlets, drain outlets, vacuum ports, skimmers lines for IL-Monte Galala Clubhouse.
- Designed and supplied and installed a fire and domestic water pump room for Canyon Plaza Mall.
- Prepared design drawings and BOQs and calculations for Compressed air system.
- Preparing Wet infrastructure utilities shop drawings. Using Autodesk CIVIL 3D, SEWERGEMS and WATERGEMS Qiddy Water Theme Park

project in Riyadh.