

Holds a B. Sc. in Mechanical Power Engineering and has over 6 years hands-on experience, including 4 years working in construction field.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Residence : Gharbia

EDUCATION

: B. Sc. in Mechanical Power Engineering, Tanta University, 2012

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: AutoCAD 2D & Plant 3D
: CAESAR II (piping stress analysis)
: MS Project

TRAINING COURSES AND CERTIFICATIONS

: Preparation course for PMP certification (40 Hours), Engineering Syndicate.
: Basics of ASME codes (ASME II & ASME IX), KIT for Engineering Innovation.
: Process piping code ASME B31.3 interpretation and application, Torab for engineering & consultancy.
: Lifting and rigging operation planning & inspection, Techno-serve (approved from EES).
: NDT level II VT, Torab for engineering & consultancy.
: Basic Piping stress analysis by CAESAR II, AUC.
: AutoCAD 2D, Engineering Syndicate.
: Work safety control system (WSCS), Methanex (internal training).
: Basics of cost estimation for construction projects, Methanex (internal training).
: Programmable logic controllers (PLC) level 1, Jeilecom for engineering training.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jan. 2018 till Oct. 2019
Employer : E-Methanex (EGYPTIAN METHANEX METHANOL CO.)
Job title : Project Field Engineer
Job Description :

- Execute new projects including new units or any modifications in the plant according to management of change procedure and Methanex Projects Standard (MPS).
- Follow Methanex Responsible Care policy and safety rules during all work stages.
- Achievements:
 - Supervise a complete new R.O unit project from initiation till commissioning and start-up.
 - Supervise all in-service plant modifications resulting from plant change requests.
 - Replacing methanol vapor recovery loading arm and its piping system.
 - Replacing two boilers attemperator valves and their piping arrangements.
 - Installing two plate heat exchangers and vessel in air separation unit with their piping system.
 - Installing fire detection system (detectors, junction boxes, conduits, cable trays, laying cables).
 - Re-route methanol drain lines underground to the process drain tank.

Dates : From Oct. 2015 till Jan. 2018
Employer : Ever Grow for specialty fertilizers
Job Description :

- Project Field Engineer (from Jan. 2017 till Jan. 2018):
 - Oversee and direct new plants projects from conception to completion.
 - Supervise all installation works from initiation till commissioning according to schedule and specifications.
 - Manage vendor and contractors' contracts and scope of work.
 - Achievements:
 - ❖ Installing complete new granulated calcium chloride (CaCl₂) plant (100,000 MT/yr.) at Evergrow Industrial Complex / Sadat City:
 - Review all engineering documents to prepare for execution.
 - Prepare & execute all plant mechanical installations activities (Piping & Equipment) from initiation to commissioning and start-up.
 - ❖ New chemical industries complex to produce (phosphoric acid, calcium chloride, Dicalcium phosphate, single super phosphate) at Evergrow Industrial Complex / Sadat City:
 - Prepare engineering work package for every module.
 - Installing 12 storage tank according to API 650 code.
 - Install static & rotating equipment.

- Mechanical Site Engineer (from Oct. 2015 till Jan. 2017):
 - Supervise all mechanical site installations in new projects (piping, tanks, equipment).
 - Manage contractors and sub-contractors and insure that all activities done according to project specifications.
 - Achievements:
 - ❖ New sulphuric acid production plant (600 MT/D) at Evergrow Industrial Complex / Sadat City:
 - Piping construction works (fabrication, erection, insulation, etc.).
 - Installing static equipment (tanks, vessels, towers, etc.) & rotating equipment (pumps, blowers, etc.).
 - Installing sub-units (6MW turbine, cooling tower, waste heat boiler, water treatment unit, etc.).
 - ❖ New potassium Sulphite production plant (30 units) at Evergrow Industrial Complex / Sadat City:
 - Piping construction works – metallic & nonmetallic - (fabrication, erection, insulation, etc.).
 - Installing equipment (tanks, vessels, scrubbers, pumps, blowers, belt conveyors).
 - Installing Potassium Sulphite reaction furnaces.

Dates : From Oct. 2013 till Oct. 2015
Employer : Management of Vehicles in Armed Forces
Project : Military Service
Job title : Maintenance Engineer (Reserve Officer)
Job Description :

- Working as a Workshop Leader and was responsible for vehicles maintenance planning and execution.
- Manage technical spare parts store.

Field of experience :

- Project Field Engineer (Mechanical), Covering various activities, Ranging from Mechanical Construction, Erection, Fabrication of Equipment (rotating & static), Process Piping, Tanks & Steel Structure in chemical, petrochemical and fertilizers process plants projects.
- Supported by skills like Analysis, Design revision Skills, Project Management, Technical Understanding, relevant industry standards (ASME & API), Documentation Skills, Safety Management, Supervision, CAD Circuit Design (2D & Plant 3D), CMS (computerized management system MAXIMO).
- Work experience in recognized companies in oil and gas field like METHANEX and fertilizers like EVERGROW throw execution of mega projects, plant modifications, asset shutdown activities and plant turnaround activities.
- Job Responsibilities:
 - Early Project Phase:
 - ❖ Review engineering drawings (P&ID, layout, isometrics, equipment erection drawings, etc.).
 - ❖ Review engineering work packages for projects and plant change requests.
 - ❖ Prepare scope of work for contractors and sub-contractors.

- ❖ Prepare B.O.Q and M.TO and Order field material.
- ❖ Assess with procurement team in tender estimation and evaluation.
- ❖ Support projects planning in preparing project schedule and progress reports.
- ❖ Prepare WBS for project activities and assess planning team in developing time schedule.
- ❖ Identifying and surveying resources (manpower, material, equipment) at each execution stage.
- ❖ Review schedules taking material and scoping needs into consideration and discuss any concerns with supervision.
- ❖ Work with supervision and project controls on erection sequences of large equipment and assist in developing rigging plans.
- ❖ Study technical offers and contracts with subcontractors and assess in procurement wises.
- ❖ Identify, manage, evaluate and control project risks.
- Peak Construction Project Phase:
 - ❖ Assign resources for sub-tasks (manpower, material, equipment).
 - ❖ Supervise all mechanical construction activities (piping, equipment installation, steel structure, etc.) and ensure contractor and sub-contractors are following safety rules and quality standards.
 - ❖ Receive and track material for every job.
 - ❖ Provide field support to superintendents and top management.
 - ❖ Review completed installations for correctness against drawings.
 - ❖ Work as a team with design engineer, QA/QC engineer and other team members to ensure delivering the targeted project objectives.
 - ❖ Supervise general site activities like scaffold erection and lifting works.
 - ❖ Punch list any discrepancies in completed work.
 - ❖ Start hydrostatic testing and releasing for insulation.
- Project Completion Phase:
 - ❖ Check lines & equipment and prepare mechanical completion reports.
 - ❖ Develop punch lists and complete physical work.
 - ❖ Complete hydrostatic, flushing, and start-up testing.
 - ❖ Complete valve packing and flange torque checks.
 - ❖ Perform all mechanical completion activities and prepare the plant for commissioning.
 - ❖ Prepare pre-start up safety review reports (PSSR).
 - ❖ Become a key member in the project pre-commissioning, commissioning and start-up team.
 - ❖ Prepare as-built drawings.
 - ❖ Prepare handover certificates.
- Key areas of expertise:
 - Industrial construction works:
 - ❖ Supervise all piping works with various diameters and materials (CS, SS, FRP, PP, NI-Cr, PVDF, lined piping, HDPE,

- ❖ Jacketed piping, Titanium, etc.).
- ❖ Supervise all piping works sub-activities like fit-up, welding, installing valves, supports, instruments, lifting, painting, insulation, wrappingetc.
- ❖ Familiar with piping drawings like P&ID, Isometrics, plot plans and GAD.
- ❖ Prepare field works & shop works and develop work control sheet.
- ❖ Good knowledge with ASME B31.3 code.
- ❖ Prepare method statement for all work activities.
- ❖ Following WPS & Inspection Test Plan (ITP) at each step of construction through to completion.
- ❖ Draw simple process piping systems by AutoCAD Plant 3D.
- ❖ Supervise construction of storage tanks according to API 650, silos, bag filters.
- ❖ Installing rotating machines and check for shaft alignment.
- ❖ Construction of cooling towers, process boilers, Crushers and pulverizes, Bucket elevators and conveyors.
- Safety Management skills:
 - ❖ Prepare JHA (job hazard analysis) and risk assessment for activities according to safety rules using WSCS procedures (Work Safety Control System).
 - ❖ Prepare work permits and manage the activities as a Performing Authority according to Responsible Care policy.
 - ❖ Experienced in working at heights, hot works, excavation, confined space.
 - ❖ Good knowledge with near misses, hazard observation, incidents reporting.
- Project Management skills:
 - ❖ Good knowledge with PMI standard for project management (PMBOK).
 - ❖ Work with computerized management skills (CMS) through MAXIMO environment.
 - ❖ Prepare WBS for project activities and assess in developing schedule.
 - ❖ Prepare progress reports daily, weekly, monthly.
 - ❖ Prepare cost estimation sheet for material, services and man-hours.