

Holds B. Sc. and M. Sc. in Mechanical Power Engineering and has about 13 years hands-on experience working in tunneling construction, TBM operation and maintenance, and the oil & energy industry.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 13/03/1986
Gender : Male
Marital Status : Married
Residence : Cairo

EDUCATION

: B. Sc. in Mechanical Power Engineering, Ain Shams University, 2008
: M. Sc. in Mechanical Engineering, Ain Shams University, 2017
: Futures Language School for boys – Nasr City, Cairo, 2003

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point, Access), Internet
: AutoCAD, Solid Works, Autodesk Inventor
: CATIA V5
: CFD Analysis
: Matlab
: FE Analysis
: SAP ERP

TRAINING COURSES AND CERTIFICATIONS

: PMP certified.
: AutoCAD (level I, II), AUC (American University in Cairo).
: Planning & Control techniques, AUC (American University in Cairo).
: Certified SOLID WORKS Professional – Core.
: Certified SOLID WORKS Professional – Simulation (CSWP-S).
: Piping network.

- : SAP ERP enterprise resource planning, IBM.
- : TBM Training, Herrenknecht – Germany.
- : Hydraulic Oils & Hydraulic Systems.
- : Fundamental of Engineering (FE license) course at AUC (American University in Cairo) (May 2009).
- : Air Cooling and Cooling Towers course at CDC (Career Development & Consulting Academy) (Apr. 2009).
- : English Conversation course at Berlitz Languages (Jun./Jul. 2008).
- : Operation & Maintenance of Steam power plant / Gas power plant / Combined power plant) at Cairo North Power Station (Jul./Aug. 2007).
- : Maintenance of Mercedes Vehicles (trucks & busses) at MCV (Manufacturing Commercial Vehicles) (Jul./Aug. 2006).
- : Operation and Maintenance of central air conditioning at GUPCO (GULF OF SUEZ PETROLEUM COMPANY) (Jul. 2006).
- : Natural Gas Production and Pipe lines at GUPCO (GULF OF SUEZ PETROLEUM COMPANY) (Jul./Aug. 2005).
- : Autodesk Inventor course at VISION (Microsoft certified) (Jan. 2005).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Aug. 2021 till now
Employer : PETROJET
Project : Cairo Metro Line 4 (CP-401)
Job title : Tunneling Division Manager
Job Description :

- Responsible for all Petrojet's tunneling and TBM activities in Cairo Metro Line 4 (CP-401).
- Selection of TBM and peripherals plants and purchase them.
- Supervise and manage the technical and production teams.

Dates : From Aug. 2019 till Jul. 2021
Employer : PETROJET
Project : Ahmed Hamdy 2 tunnel
Job title : Tunneling Manager (TBM)
Job Description :

- Monitor TBM performance and ensure operation within allowable limits in slurry mixshield Tunnel boring machine (TBM) 13 m diameter at Ahmed Hamdy 2 tunnel.
- Supervise and manage TBM production and maintenance teams which involve more than 200 engineers, experts, technicians, and workers.
- To lead the successful delivery of the tunnel works and meeting or exceeding project targets.
- Plant, equipment, material is procured, assembled and ready to use as and when required.

Dates : From May 2016 till Aug. 2019
Employer : PETROJET
Project : Ismailia Tunnels Project (Tunnels under Suez Canal – Ismailia – Phase I)
Job title : TBM Mechanical Engineer

Job Description :

- Supervise and manage maintenance team in slurry mixshield Tunnel boring machine (TBM) 13 m diameter and slurry treatment plant (STP) at Ismailia road tunnels.
- Ensure all required documentation and instructions regarding TBM operation are provided and followed.
- Create Maintenance plan for TBM and STP and follow it with the maintenance team.
- Responsible for follow-up and order spare parts, oil and grease required for the TBM and STP.
- Responsible for cutting tools refurbishment.

Dates : From Dec. 2015 till May 2016

Employer : PETROJET

Project : Ismailia Tunnels Project (Tunnels under Suez Canal – Ismailia – Phase I)

Job title : Methods Engineer

Job Description :

- Participate in creating methods of statements for Tunnel boring machine (TBM) assembly, launching and operation.
- Design and create drawings for all pipelines and steel tanks for TBM, STP and grout batching plant.
- Design and create drawings for Steel structure required for the tunnel and TBM launching.
- Create and design layout for the Site.

Dates : From Aug. 2014 till Dec. 2015

Employer : PETROJET

Project : Ismailia Tunnels Project (Tunnels under Suez Canal – Ismailia – Phase I)

Job title : Mechanical Project Engineer – Tunneling

Job Description :

- Monitoring all activists related to the TBM from machine handover to assembly and operation.
- Assist in the development and management of assigned tunnel project work during all phases, from planning to design, procurement, operation and commissioning.
- Understand and manage the Technical Scope.
- Ensure that requirements for Design Verification are identified, scheduled and resourced.

Dates : From Sep. 2010 till Aug. 2014

Employer : PETROJET

Projects :

- EPC DAHSHOUR - FIRE WATER TANK - QPC
- MISR PETROLEUM NEW TANK FARM
- ETHYDCO'S UTILITIES AND OFFSITES PROJECT - ETHYDCO

Job title : Mechanical Design Engineer (Steel Tanks Design Dept.)

Job Description :

- Design all different types of steel tanks in high quality and fully meeting the specific requirements.
- Preparation of general arrangement drawings and detailed fabrication drawings for different parts of the tank using AUTOCAD 2D and SOLID WORS.
- Performing Engineering Calculations, FE Analysis & CFD Analysis using different types of codes (API 650, API 620, AWWA & ASME) and

with computer software (SOILDWORKS SIMULATION, COMPRESS & ETank).

- Prepare Bills of Quantity for Tenders.

Dates : From Oct. 2008 till Aug. 2010
Employer : ASFOUR CRYSTAL INTERNATIONAL
Job title : R&D Engineer
Job Description :

- Design, develop and refine new Production machines, methods and techniques.
- Assist in the transfer of newly developed machines from R&D to production.
- Successfully complete engineering work in one or more of the following: technology development, machine design and development, preparation of specifications, process study, research investigation and report preparation.

Publications:

- (2017) "Study sets design limits on floating single-roof tanks", Oil & Gas Journal, ISSN: 0030-1388, Volume 115, Issue 4, April 2017.
- (2017) "STUDY ASSESSES FLOATING ROOF DESIGNS AGAINST RAIN, PONTOON PUNCTURE", Oil & Gas Journal, ISSN: 0030-1388, Volume 115, Issue 1, January 2017.
- (2017) "Design and Study of Floating Roofs for Oil Storage Tanks", Mechanics and Mechanical Engineering, ISSN: 1428-1511, 2354-0192, Volume 21, Issue 1, January 2017.