

Holds a B. Sc. in Electronics & Communication Engineering and a Diploma of Higher Studies in Automatic Control System. Has about 15 years of experience leading industrial maintenance management and EPC projects within the power generation, oil & gas and refinery sectors. Proven expertise in optimizing plant availability, managing complex ICSS data networks, and executing preventive maintenance (PM) and corrective maintenance (CM). Highly skilled in DCS/ESD systems and the design/maintenance the maintenance of critical field instruments and control valves.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Residence : Suez

EDUCATION

- : B. Sc. in Electronics & Communication Engineering, El-Shorouk Academy, 2009
- : Diploma of Higher Studies in Automatic Control System, Cairo University, 2017

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

- : Windows, MS Office, Internet
- : SAP
- : Amplisma (CMMS)
- : Navisworks
- : E3D
- : AutoCAD

TRAINING COURSES AND CERTIFICATIONS

- : IOSH Managing Safely (Mar. 2024).
- : Boiler operation & maintenance, AC BOILERS, Italy (Oct. 2017).
- : ABB 800-xA maintenance training, ABB University, India (Nov. 2015).
- : MCITP: Enterprise Administrator (2008).
- : Hazard and risk assessment (2024).
- : PSM Advanced course (2023).

- : SCADA SYSTEM (2023).
- : PLC Siemens S7 (2022).
- : Protection system: Triconex (2018).
- : Instruments maintenance by Siemens (2018).
- : Maintenance reliability (2017).
- : Hydrogen unit operation & maintenance (2017).
- : Microsoft Exchange Server (2010).
- : CCNA course (2008).

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Feb. 2026 till now

Employer : East Delta Electricity Production Company

Project : Suez Thermal Power Plant (650MW)

Job title : Senior I&C Maintenance Engineer

Job Description :

- Returned to lead the I&C maintenance department, focusing on maximizing the reliability and performance of the 650MW unit.
- Directing a specialized team in troubleshooting control logic and fault elimination for critical DCS (ABB 800xA), ESD (Triconex), and PLC systems.
- Leading Root Cause Analysis (RCA) investigations for complex instrumentation failures to implement sustainable corrective actions.
- Executing loop checks and functional testing during planned outages, ensuring strict adherence to HSEQ standards.

Dates : From Mar. 2025 till Jan. 2026

Employer : Egyptian Maintenance Company (EMC) – Major Projects Division

Job title : Senior I&C Project Engineer

Job Description :

- Develop and approve comprehensive instrumentation specifications for Boilers DCS/ESD upgrades at CORC and SOPC.
- Managed a \$600,000 budget for boiler DCS and ESD upgrades for Cairo Oil Refining Company (CORC) and Suez Oil Processing Company (SOPC), successfully reducing project costs by 15% through strategic procurement.
- Supported system upgrades and modification projects, directing multidisciplinary engineering teams.
- Direct contractor workforce activities during project execution and perform technical bid evaluations for instrumentation services and materials to ensure quality control and cost-effectiveness.
- Oversee the maintenance, troubleshooting, and refurbishment of critical field instrument devices to ensure optimal plant performance.

Dates : From Mar. 2015 till Feb. 2025

Employer : East Delta Electricity Production Company

Project : Suez Thermal Power Plant (650MW)

Job title : Senior I&C Maintenance Engineer

Job Description :

- Optimized Preventive Maintenance (PM) schedules for a 650MW Gas/Oil Fired Unit, reducing overall maintenance costs by 15% while extending critical equipment lifespan.
- Managed the calibration and refurbishment of critical field devices and flame scanners.

Dates : From Apr. 2022 till now (part time)

Employer : MEEG (Micro Engineering Egypt Group) (Subcontractor to EPROM)

Project : Projects for Suez Oil Processing Company (SOPC) and Cairo Oil Refining Company (CORC)

Job title : Senior Instrumentation Engineer

Job Description :

- Created As-Built documentation for refinery units.
- Developed As-Built Cause & Effect (C&E) Matrices from existing logic diagrams and develop comprehensive documentation, including loop diagrams, interconnecting wiring diagrams, and field layouts.
- Ensured 100% compliance with ANSI/ISA 5.1 standards for P&IDs.

Dates : From Jul. 2014 till Mar. 2025

Employer : UEco Trade (Engineering Services)

Job title : Founder & Lead Systems Engineer

Job Description :

- Directed the end-to-end execution of complex Light Current systems, including IP/Analog CCTV, Fire Alarm and Access Control.
- Designed and implemented industrial telecom networks featuring PA-GA, PABX, and high-speed fiber-optic cabling.
- Conducted technical and commercial evaluations for materials to ensure project quality and cost-effectiveness.

Dates : From Oct. 2012 till Feb. 2015

Employer : East Delta Electricity Production Company

Project : Sokhna Power Plant (2x650MW)

Job title : Project I&C Engineer

Job Description :

- Oversaw the fabrication, installation, and acceptance of Junction Boxes, cable trays, and required instrument piping alongside contractors.
- Managed Factory Acceptance Tests (FAT) and Site Acceptance Tests (SAT) for Process Control Systems to ensure design compliance prior to commissioning.
- Reviewed and verified critical engineering documents, including P&IDs, hook-up drawings, Control Philosophy, Logic Sequences, and I/O Lists.
- Developed comprehensive testing and commissioning procedures for Instrumentation & Process Control equipment.

Dates : From Jun. 2011 till Oct. 2012

Employer : Egyptian Electric Transmission Co.

Job title : Shift Charge Engineer

- Field of experience :**
- Core Competencies:
 - Maintenance Leadership: PM/CM Optimization, Reliability Centered Maintenance (RCM), Outage Management, Root Cause Analysis (RCA), and functional testing.
 - Control Systems: DCS (Siemens S7, Yokogawa, ABB 800xA, Foxboro), ESD (Triconex), PLCs (Siemens S7, Allen-Bradley, LD/ST/FBD/SFC programming), Turbine Control (ALSPA), BMS (Foxboro), SCADA Systems, and troubleshooting control logic.
 - Field Instrumentation: calibration and troubleshooting (Temperature, Pressure, Level, Flow); Control Valves & MOVs (ROTORK, AUMA); Flame Scanners/Detectors; Radar Tank Gauging (RTG); Process Analyzers (O₂, Sulfur, CEMS).
 - Networking & Protocols: Industrial Protocols (Modbus, Profibus, Foundation Fieldbus, HART), Fiber-Optics, Structured Cabling, Routers & Switches.
 - Light Current & Telecom: Fire Alarm systems, CCTV (IP & Analog), Access Control, PABX, PA-GA, and Fiber-Optics networking.
 - Compliance & Safety: HSE Management Systems, HAZOP, SIL Assessment, ATEX/Explosion-Proof Equipment, Work Permit Systems.
 - Technical Skills:
 - Standards & Compliance: API, ANSI, ISA, IEC, SIL assessment, HAZOP and ATEX.
 - Condition monitoring and diagnostic tools.
 - Risk Assessment & Hazard Mitigation
 - Flame scanner & flame detectors technique.
 - Control systems design, development, installation and commissioning.
 - RTG, Radar Tank Gauging system.
 - Troubleshooting Continuous Emission Monitoring Systems, Analyzer Instrumentation including, Sulfur Analyzer, Oxygen Analyzer.
 - Installation and Maintenance Supervision.
 - Industrial Communication protocols: Modbus, Profibus, Foundation Fieldbus, HART.
 - Managing Windows Server, Domain Controller & Active Directory.
 - Technical review of PID, control philosophy, process logic, data sheets.
 - Proficient in developing deliverables such as BDs, SLDs, P&IDs, ILDs, ISDs, ISS, C&E diagrams, HAZID, SIL, etc.