

Holds a B. Sc. in Communication & Electronic Engineering and has about 15 years hands-on experience in Design, Engineering, Construction, Commissioning and Project Management for Power Projects (Simple, Steam & Combined Power Plants) and Water & Wastewater Treatment Plants.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 02/01/1978  
Gender : Male  
Marital Status : Married  
Residence : Alexandria

## **EDUCATION**

: B. Sc. in Communication & Electronic Engineering, Alexandria University, 2001

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

: Windows, MS Office (Word, Excel, Power Point, Access), Internet  
: MS Frontpage  
: Programming Languages (Assembly, C, Pascal, Basic, Microsoft Visual Basic 6.0 Certified Achievement, MCSD courses)  
: Engineering programs (AutoCAD, PSPICE, Matlab, MathCAD, Equation Grapher, WinCAD)  
: Unix (HP Unix, SCO Unix), Linux Mandrake, VMS

## **TRAINING COURSES AND CERTIFICATIONS**

: Control system and instrumentation for Steam turbine, Generator and Condenser from Ansaldo Energia in Genua, Italy.  
: Control system and instrumentation for HRSG from NEM.  
: Training in Switzerland in BRUGG CABLES on DTS (Distributed Temperature Monitoring System) for 500KV power cables.  
: YOKOGAWA CENTUM CS300 from Yokogawa Middle East (YME).  
: Control system and instrumentation for Gas turbine from MITSUBISHI.  
: Gas Compressors from Atlas Copco.

- : Training for gas turbine Control System TELEPERM XP from SIEMENS.
- : Training for Servo valves maintenance by MOOG.
- : Training for Electrical Monitoring Control System (EMCS) by Schneider.
- : Training for MS 9001 Gas Turbine Operation Training by GE.
- : Training for Compressed Air System by TOSHIBA.
- : Training for Field Instruments by TOSHIBA.
- : Training for Traveling Water Screens & Trash Rake by TARNOS.
- : Training for O&M for Overhead Crane 120/20 Ton by KONECRANES.
- : Training for Feedwater Pumps by EBARA.
- : Training for Power Transformer by AREVA.
- : Training for UPS by GUTOR.
- : Training for Water Treatment Package by METITO.
- : Programmable Logic Control (PLC) Siemens Step7 Part 1.
- : Programmable Logic Control (PLC) Siemens Step7 Part 2.
- : Distributed Control System (DCS) Bille System.
- : Distributed Control System (DCS) Siemens System.
- : Desalination plant.
- : Switchyard.
- : Operation System of Power Station.
- : Training in the scientific computation center on programming methods by (C) language, Jun./Jul. 2000.
- : Training in Arab Petroleum Pipelines Co. (SUMED) on power factor correction & the design of electrical station by using electrical energy in the engineering section, Aug. 1998.
- : Training in Arab Petroleum Pipelines Co. (SUMED) on the maintenance of apparatus & control in Sidi Krir section, Aug. 1999.
- : Training in Arab Petroleum Pipelines Co. (SUMED) on the maintenance of wireless communication systems in the maintenance section, Jul. 2000.
- : Local training for steam turbine operation and field instrument maintenance provided by Siemens.
- : Electro-hydraulic flow control servo valves.
- : Diasys netmation training by DCS Mitsubishi Heavy Industries Ltd.
- : Bentley Nevada 3500 Vibration system.
- : Operation of steam power plant (boiler, turbine, generator, transformer & auxiliaries).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Apr. 2011 till now
- Employer** : Kharafi National for Mechanical and Electrical Works
- Projects** :
- Al-Shabab Simple Cycle Power Plant 8x125MW GE Gas turbines with BOP and main DCS (Egypt)
  - Damietta Simple Cycle Power Plant 4x125MW GE Gas turbines with BOP and main DCS (Egypt)
  - West Damietta Simple Cycle Power Plant 4x125MW GE Gas turbines with BOP and main DCS (Egypt)

- Sulaybiya Waste Water treatment plant: Expansion of the existing Sulaibiya STP to 600,000 cubic meter per day
  - Design, Procurement & Construction of a Brine Pumping Facility at Sulaibiya Waste Water Treatment Plant (SWWTP)
  - Supply and Installation of 16 No. 132/11KV MEW Substation
  - Main R.O. Transfer Line Flow from DMC to Sabah Al-Salem University City
  - 29 - DBO for STEP Regional Odour Control Facilities System (FOCS)
- Job titles** : Instrumentation and Control Lead Design Engineer in EPC Department  
Project Engineering Manager - Brine Pumping Facility Project for KOC
- Job Description** : Performing and creating full project engineering services required and assisting project management for the above mentioned projects.
- Dates** : From Oct. 2010 till Mar. 2011
- Employer** : TEC Engineering & Contracting Co.
- Project** : Upgrade of Damanhour Power Station 300MW
- Job title** : Senior I&C Engineer
- Job Description** : Responsible for engineering, construction and commissioning of the upgrade for Damanhour Power Station (replace all field instruments and DCS system at the oil-fired 300MW power plant).
- Dates** : From Dec. 2005 till Oct. 2010
- Employer** : West Delta Electricity Production Co.
- Project** : SIDI KRIR Combined Cycle Power Station (750MW)  
(consists of one steam turbine (Ansaldo) and two gas turbines (Mitsubishi) and two "HRSG" NEM type)
- Job title** : I&C Engineer
- Job Description** :
  - Participate in offers & contracts evaluation for combined cycle (750MW) power station project.
  - Instruments construction, installation, Loop check & start-up.
  - Control & servo valves calibration.
  - Vibration, Temperature, Pressure and Flow Measurements and calibration.
  - Programmable Logic Control (PLC), Siemens-Allen Bradley.
  - Distributed control system (DCS) of ABB & DIASYS NETMATION (for MITSUBISHI), YOKOGAWA (centum 3000).
  - Pneumatic & hydraulic circuit's maintenance & troubleshooting.
  - Gas & air compressors troubleshooting.
  - HRSG operation, maintenance, controls, instrumentation and water chemistry.
- Dates** : From Dec. 2004 till Dec. 2005
- Employer** : West Delta Electricity Production Co.
- Project** : Steam Power Station (640MW)  
(consists of two steam turbines "Siemens" and two boilers)
- Job title** : I&C Maintenance Engineer

- Job Description** : Maintenance of field instruments & DCS control system (maintenance, service, calibration, repair and testing of all pneumatic and electronic control instrumentation in the process and utilities).
- Dates** : From Oct. 2002 till Dec. 2004
- Employer** : Transport & Engineering Co. (TRENCO)
- Job title** : Communication & Electronics Engineer
- Job Description** :
  - Design, development and production of Radial Tires for Cars and Light Trucks.
  - Responsible for calibration lab apparatus, maintenance of electronics boards in the maintenance lab section.
- Field of experience** :
  - Manage, coordinate and provide technical support to the design team ensuring safe and successful completion of project related engineering activities according to specification, budget, schedule, quality, statutory codes and Company procedures and practices.
  - Review, approve and implement all engineering standards, policies and procedures.
  - Direct and monitor all personnel activities within engineering area including manpower forecasting, staff assignments and performance reviews.
  - Oversee the coordination and development of engineering plans and specification between other design teams.
  - Implement policies, established procedures and expedite workflow.
  - Manage design teams, programs or functions, develop goals and objectives and ensure that staff has an appropriate project understanding.
  - Determine appropriate codes, regulations and requirements for projects assigned to staff.
  - Represent design team in meetings with consultant engineers, third party agencies, construction project engineers, professional and technical groups and sub contractors regarding project activities.
  - Take leadership of and provide direction to design team and manage and ensure resolution of problems.
  - Interview prospective employees and make recommendations to management to hire and teach team members.
  - Supporting All Tender/in Hand project engineering activity.
  - Preparing P&IDs and Review in details the technical documents, Shop Drawings before issuing inquiries based on the relative spec.
  - Review of vendor Documents & drawings.
  - Preparation of enquiry / purchase order specifications for different packages.
  - Review of quotes.
  - Creating Engineering documentation such as (Instrument index, control philosophy, I/O list, Loop schematics, hook up drawings, Cause & Effect, layout, General Arrangement Drawings, Network architecture, HMI graphic screens, Control room layouts, data sheets, Logic diagram, cable route, cable Schedule, etc.).
  - Review of quotes for Distributed Control Systems and SCADA systems (Yokogawa, Invensys, Honeywell, Metso Automation, ABB, Siemens, EMERSONS, ROCKWELL Automation, etc.).

- Review of quotes for PLCs (SIEMENS: S7 312/300 (SIMATIC STEP 7), 57 224/212 (SIMATIC MicroWin), ALLEN BRADLEY: controllogix, Micrologix1200, 1000, SLC-500 1747 -L532 (RSLOGIX 5000) SCADA of PLC "RSVIEW32").
- Review of FAT procedures for approval.
- Control valve sizing and selection.
- Preparation of enquiry / purchase order specifications different field Instrumentation and control cables according to process parameters as well as service conditions for material selection.
- Preparation of all instrument materials (BOM) for installation for field instruments as per hookups.
- Interaction with others e.g. Process Design, Piping, Mechanical Pressure Vessel, Civil, Electrical, PDMS design and etc.
- Bid Evaluation of EPC mega projects.
- Participate in pre-award stage via Cross Functional Team; achieving the tender activities, and proposal defined targets.