

Holds a B. Sc. in Electronics & Communication Engineering and has over 14 years hands-on experience working in I&C field.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 27/06/1982  
Gender : Male  
Marital Status : Married  
Residence : Gharbia

## **EDUCATION**

: B. Sc. in Electronics & Communication Engineering, Tanta University, 2006

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

: Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : Distributed Control System (DCS) CENTUM VP Maintenance Activities, YOKOGAWA MIDDLE EAST Company in BAHRAIN (Sep./Oct. 2014).
- : Training on Benha GAS TURBINE CONTROL SYSTEM (MARK VIe) from General Electric Company at site, Benha (May/June. 2013).
- : Training on HRSG MAINTENANCE (Design, I&C, Pressure Parts, Valves and Actuators, main Components) in ANSALDO CALADIE Company in ITALY (Apr./May 2013).
- : Bentley Nevada 3500 vibration monitoring system from General Electric Company (GE) at site, Cairo West Power Station (2010).
- : Instruments installation and maintenance, BOILER CONTROL AND BMS (HIACS 7000M) from HITACHI, Cairo West Power Station (Oct./Nov. 2010).
- : Instruments and control course from Ansaldo Caldaie Company (2014).
- : Training on Hydrogen H-series Generators utilize proton Exchange Membrane (PEM) in BANHA C/C POWER PLANT FROM PROTON (Feb./Mar. 2004).
- : One week in ABB Company for PGP & Symphony Harmony Infi90 (ABB) Control system in site.

: Maintenance Training for Gas & Oil-Fired Boiler and its Auxiliaries in thermal power plant.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Feb. 2013 till now  
**Employer** : Middle Delta Electricity Production Co. (MDEPC)  
**Project** : Banha Power Station (750MW Combined Cycle)  
**Job titles** :

- I&C Engineer (two 250MW GE gas turbines frame 9FA (MARK VIe))
- I&C Engineer of HRSG and steam turbine instruments in BANHA STATION system
- I&C Engineer of Auxiliary Units (Hydrogen units, Compressor air, Fire alarm System, Fuel Oil treatment unit Feed Water pumps and Circulating pumps) INSTRUMENTS IN BANHA STATION

**Job Description** :

- All field instruments (thermocouples, vibration, flow, pressure and level transmitters, all servo valves and pneumatic actuators) calibration & installations & commissioning & loop check with control system.
- Review all submittals from the contractors and the subcontractors.
- Monitor daily installation progress and check all activities at site according to engineering drawings.
- Check all received materials at site to ensure their correct manufacture, model and type.
- Prepare and keep the documentation of the daily progress report.
- Calibration of all field instruments at labor before installation, for example:
  - Field transmitters (Siemens & ABB).
  - Temperature sensors (thermocouples and RTDs) calibration check.
  - Vibration monitor systems (Bentley Nevada 3500).
  - Actuators (electrical (auma), pneumatic (Valve)).
- Silt Dredge system with control logix Allen Bradley PLC logix1400.
- Hydrogen Generator Units with Proton system.
- Fuel Oil Treatment with Contol Siemens S7-300.
- Fire Alarm system portable fire extinguishers (H.F fire international).
- Compressor air system with Atlas Copco.
- Vibration System on Feed Water Pumps Bentley Nevada 3500.
- HP/IP/LP feed water pump loop check and function test.
- From Jan. 2014 till now after project complete, the current position is I&C Maintenance Engineer in same project for the steam turbine and DCS control system.

**Dates** : Jun. 2015  
**Employer** : Middle Delta Electricity Production Co. (MDEPC)  
**Project** : El-Mahmoudia GAS TURBINE (2x165MW GAS TURBINE PROJECT)  
**Job title** : I&C Commissioning and Start-up Engineer  
**Job Description** :

- Making Loop Check and Function test.
- Adjust the Turbine Supervisory Instrument such as (radial vibration, Seismic Vibration and Speed Sensors).
- Calibration of all Hazard Gas Detectors.
- Commissioning of Fire Fighting Protection System.
- Calibration of all Pressure Transmitter, Flow Transmitter and Pressure

Switches.

- Switches, all type of RTD and Thermocouple.
- Calibration of all Valves Control as Pneumatic and Shut off Valves.
- Calibration of Inlet Guide Vane of the Inlet of the Compressor.
- Commissioning of all local Control Panels Such as (Air Processing Unit and Air Filter System).

- Dates** : From Feb. 2008 till Jan. 2013
- Employer** : Cairo Electricity Production Company
- Project** : Cairo West Project ((2x350MW) oil/gas fired Steam Power Station)
- Job titles** :
  - I&C Maintenance Engineer (from Feb. 2011 till Jan. 2013)
  - I&C Commissioning & Start-up Engineer (from Feb. 2008 till Jan. 2011)
- Job Description** :
  - DCS Engineer of YOKOGAWA DCS (CENTUM CS 3000) for BOP and 2 boilers control system:
    - Calibration of all field instruments at labor before installation, for example:
      - Field transmitters (Siemens & Yokogawa).
      - FLUE GAS Analyzers (O<sub>2</sub>, CO, SO<sub>2</sub>, NOX analyzers).
      - Temperature sensors (thermocouples and RTDs) calibration check.
      - Furnace camera (CCTV) television system.
      - Vibration monitor systems (Bentley Nevada 3500).
      - Actuators (electrical (auma), pneumatic (nippon fisher)).
    - All instruments installations, commissioning & loop check with YOKOGAWA DCS.
    - CEMS (continuous emission monitoring) system with (O<sub>2</sub>, SO<sub>2</sub>, CO, NOX, opacity) from Forney analyzers installation, commissioning and start-up.
    - Burner management system (BMS) hardware and software (HIACS 7000M) Commissioning, test and start-up system from HITACHI.
    - Boiler function, sequence and control logic test built with (YOKOGAWA CENTUM CS3000 DCS) function logic blocks.
    - Soot blower system commissioning, test and start-up it is implemented using Yokogawa PLC (stardom).
    - Fire alarm panels commissioning, test and maintenance (Notifier, simplex).
  - From Feb. 2011 till Jan. 2013 position as I&C Maintenance Engineer the in same project:
    - Field Instruments, control loops, DCS system (Yokogawa) and BMS system maintenance.
    - Study boilers and DCS contracts.
    - Review all submittals from the contractors and the subcontractors.
    - Monitor daily installation progress and check all activities at site according to engineering drawings.
    - Check all received materials at site to ensure their correct manufacture, model and type.
    - Prepare and keep the documentation of the daily progress report.
    - Prepare documentation for predictive maintenance plan and schedule.
    - Work at warranty overhaul for both units.