

Holds a B. Sc. in Industrial Electronics & Automatic Control Engineering and has about 13 years hands-on experience, including 10 years in power plant projects working as I&C Engineer & Operation Engineer.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 04/04/1977  
Gender : Male  
Marital Status : Married

## **EDUCATION**

: B. Sc. in Industrial Electronics & Automatic Control Engineering, Menoufia University, 2004

## **LANGUAGES**

Arabic : Native Language  
English : Good

## **COMPUTER SKILLS**

: Windows, MS Office (Word, Excel, Power Point), Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : SIPRTEC 4 – Numerical Protection Devices – SIEMENS Power Academy.
- : SICAM PAS Training – SIEMENS Power Academy.
- : HRSG operation and maintenance – NEM Company.
- : HRSG controls and instrumentation – NEM Company.
- : Basic Operation Training of Gas Turbine (M701 F) – MITSUBISHI HEAVY INDUSTRIES.
- : I&C Maintenance Training of Gas Turbine (M701 F) – MITSUBISHI HEAVY INDUSTRIES.
- : Construction and Calibration of the Instrument on the Heat Recovery Steam Generation.
- : Steam turbine, generator and condenser operation – ANSALDO ENERGIA Company.
- : LV switchboards – SCHNEIDER ELECTRIC Company.
- : MV primary distribution Equipment Knowledge and Use – SCHNEIDER ELECTRIC Company.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From 2009 till now
- Employer** : Middle Delta Electricity Production Company
- Project** : El-Atf Power Plant (750MW):
- 2x250MW gas turbine by Mitsubishi (Frame M701F - Diasys control system)
  - 1x250MW steam turbine by Ansaldo Energia (ABB SYMPHONY HARMONY control system)
  - 2 HRSGs by NEM (CENTUM 3000 control system)
  - GIS 220KV switchyard one and half circuit breaker, consist of two Bus bar, five bays
  - Two auxiliary transformers (21/6.3KV) by Areva
  - 6.3KV Switchgear by Schneider
  - Two (21/220KV Step Up Transformers) and one (15.75/220KV Step Up Transformer)
- Job titles** : I&C Engineer
- Job Description** :
- Major and minor inspection of the gas turbine.
  - Maintenance (software and hardware) of gas turbine control system (DYASYS NETMATION CONTROL).
  - Calibration of the Instruments on the Heat Recovery Steam Generation.
  - Maintenance of natural gas compressors (ATLAS COPCO).
  - Maintenance of instrument and service air compressors (COMP AIR).
  - Maintenance of Fire detection and alarm system.
  - Calibration and adjustment all valves (Electrical, Pneumatic and hydraulic).
  - Calibration and adjustment pressure switches and pressure transmitters.
  - Calibration and adjustment all flow transmitters and switches.
  - Calibration and adjustment of ULTRA SONIC transmitters.
  - Maintenance of temperature sensors (RTDs and Thermocouples).
- Dates** : From 2007 till 2009
- Project** : El-Mahmoudia Power Station (300MW):
- 8x25MW gas turbine by GE (Frame 5), 2x50MW steam turbine by GE, 8 HRSGs by NEM
  - 220/66/11KV Transformers substations
  - 11/220KV Step Up Transformers
  - 11/6KV Transformers
  - Feeder 220KV (6 sets) and feeder 66KV
  - 220KV Switchyard
  - 6.6KV Switchgear (Sf6 circuit breakers)
  - Infi 99 DCS by ABB, Mark II and Mark V by GE
- Job Description** :
- Operation Shift Leader Engineer:
    - Unit start-up and shutdown procedures.
    - Monitoring parameters.
    - Testing the equipments.
    - Isolation and de-isolation procedures.
    - Safety work permit system.
    - Condensate system & condensate pumps.

- Circulating water system & circulation pumps.
- Feed water system & pumps.
- I&C Engineer:
  - Perform the I&C testing for all the I&C equipment in accordance with the local codes & standards.
  - Making loop check and function test.
  - Calibration of all types of instruments (pressure transmitters and switches, flow transmitters, level transmitters and switches, all types of thermocouples and RTD...).
  - Calibration of all types of shut off and control valves motorized, pneumatic, and hydraulic valves.
  - Troubleshooting all I&C faults and making all kind of maintenance activities.
  - Making loop check and function test.
  - Calibration and repairing of Pressure, Temperature, Flow and Level Switches and Gauges, I/P and P/I Converters.

**Dates** : From 2004 till 2007

**Employer** : Trust for Engineering and Services Company

**Job title** : Maintenance Engineer of Medical Instruments

**Job Description** :

- Maintenance of S&W products.
- Maintenance of CRT Monitors.
- Maintenance of all kinds of Power Supplies.

**Field of experience** :

- I&C Engineer & Operation Engineer with more than 10 years of experience in power plant projects.
- During this period I worked in combined cycle, simple cycle and all activities (loop check, function test and instrument calibration).
- Long experience on DIASYSNETMATION (Mitsubishi).
- Worked on all kind of field instruments and instrument calibration tools.
- Very good in troubleshooting, fault analysis and all maintenance activities.