

Holds a B. Sc. in Industrial Electronics & Control Engineering and has about 14 years hands-on experience, including 11 years working as I&C Engineer at Cairo West Power Station.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 05/03/1984  
Gender : Male  
Marital Status : Married  
Residence : Menoufia

## **EDUCATION**

: B. Sc. in Industrial Electronics & Control Engineering, Menoufia University, 2005

## **LANGUAGES**

Arabic : Native Language  
English : Fluent

## **COMPUTER SKILLS**

: Windows, MS Office, Internet  
: AutoCAD  
: Basic  
: Visual Basic  
: Matlab  
: PLC Programming: Ladder Diagram, function block  
: SAP

## **TRAINING COURSES AND CERTIFICATIONS**

: Off-shore: 28 days training on DCS control system (SPPA-T3000) in Siemens Power Generation Co. in Germany (Oct./Nov. 2013).  
: Off-shore: 28 days training on DCS control system (Centim CS3000) in Yokogawa Middle East Co. in Bahrain (Oct./Nov. 2010).  
: Training in Cairo West Power Station Training Institute (Simatic S7 Siemens) by Trycom Controls Co. (Dec. 2009).  
: Shoubra El-Kheima Power Station Training Institute (Bechtel Power Corporation) (from Jun. till Aug. 2008).  
: Training in Cairo North Power Station Training Institute (maintenance and operation).

- : Training in Esna Power Plant (composer 4.3.0 & PGP 4.0) (Jan./Feb. 2007).
- : Training in Shoubra El-Kheima Power Plant.
- : Training in Iron and Steel Co. – Helwan.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2008 till now
- Employer** : Cairo Electricity Production Co.
- Project** : Cairo West Power Station:
- 2 units Siemens Steam Turbine & Generator (MCR: 357MW).
  - 2 units Hitachi Steam Boilers (MCR: 1030 t/hr) Main Steam Pressure 175 bar.
  - ABB DCS Control System (Procontrol P14).
  - Siemens DCS control system SPPA-T3000 & Teleperm ME with Symadin D.
  - 4 Operation Modes: Coordinate, Sliding, Constant Pressure and Unit Master OFF Modes.
  - Natural Gas & Fuel Oil Firing Systems.
  - 2 Emergency Diesel Generators (2MW each).
- Job title** : I&C Engineer - DCS Administration (SPPA-T3000)
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- Dates** : From Aug. 2007 till May 2008
- Employer** : EL HELAL & GOLDEN STAR GROUP (plastic injection)
- Job title** : Electrical Maintenance Engineer
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- Dates** : From Oct. 2005 till Aug. 2007
- Employer** : Egyptian Engineering Company
- Job title** : Electrical Engineer
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- Field of experience** :
- Make upgrade DCS for steam turbine by Siemens Co. from Teleperm ME with Symadin D to SPPA-T3000.
  - Make the overhaul of steam turbine in unit 6 by Siemens Co.
  - Make upgrade of HMI control system by ABB Co. from POS20 to POS30 V7.2.
  - Upgrade PDDS to PDDS V6.0.7 PDAWXP by ABB Co.
  - Make upgrade of vibration system on unit 6 by Vibrometer Co.
  - Upgrade Burner Management System from DCS Forney Co. to PLC Simatic Manager S7.0.
  - Make upgrade and installation of Ingersoll-Rand compressors.
  - Make upgrade of water treatment cabinet from Simatic Manager S5 to Simatic Manager S7.
  - Esna Power Plant control system upgrade with ABB control system (hardware and software).
  - Major maintenance of steam turbines, generators, boilers of Power Plants.
  - Configuring and faults diagnosis of DCS, PLC, Analyzers and Control Loops.
  - Troubleshooting the control, SCADA and DCS, software and hardware.

- Good knowledge of Microcontroller and programming.
- PLC: Siemens simatic S7 200, 300, 400 and Allen Bradley 1756.
- Installation, calibration and loop checking of the field instruments (Emerson Rosemount, Endress & Hauser, Bentley Nevada, Honeywell, Yokogawa ...).
- Maintenance and calibration of the control valves (Pneumatic, MOV ...) of Flowserve, REXA, Torque, Auma matic, .....
- Electronics (Repair Cards).
- Calibration of control valves positioners.
- Calibration of (pressure, Temp, flow and level) Transmitters.
- Maintenance of (pressure, Temp, flow and level) switch.
- Maintenance and calibration of different analyzers: Conductivity, Chlorine, PH, SDI, Redox, Turbidity, TDS.
- Adjusting and maintenance of "Vibrometer" & "Bentley Nevada" vibration probe.
- Maintenance and programming of Ingersoll-Rand compressors.
- Maintenance and adjusting electro-hydraulic servo valve and drain valve.
- Implementing and Commissioning of new control loops as per site requirements.
- Review of control philosophy, P&I diagrams, cause & effect diagrams, instruments list, flow chart.
- Familiar with engineering standards ISA, IEEE, ASTM, NAMUR, ASMI, ANSI, NEMA, IEC.
- Preparing master data sheet for PM schedule; ensuring safe and efficient performing of CM.
- Technical Support for the instrumentation team.
- Experienced in the field instruments and control systems procurement activities.
- Spares balance investigation and inventory control for all instruments' spare parts.
- Reporting periodically to Maintenance Manager; preparing PM and CM reports.
- Tender documents reviewing and studying.