

Holds a B. Sc. in Automatic Control & Industrial Electronics Engineering and has over 17 years hands-on experience, including 15 years working as I&C Engineer in Power Stations.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 22/11/1982  
Gender : Male  
Marital Status : Married  
Residence : Menoufia

## **EDUCATION**

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

## **LANGUAGES**

Arabic : Native Language  
English : Very Good

## **COMPUTER SKILLS**

: Windows, MS Office, Internet

## **TRAINING COURSES AND CERTIFICATIONS**

- : Off-shore (2013): One month training on GAS TURBINE CONTROL SYSTEM (MARK VIe) in General Electric Company in FRANCE.
- : On-shore (2013): One month training on GAS TURBINE CONTROL SYSTEM (MARK VIe) from General Electric Company at site.
- : Off-shore (2010): One month training on DCS system (CENTIM CS3000) in YOKOGAWA MIDDLE EAST Company in BAHRAIN.
- : On-shore (2010): Bentley Nevada 3500 vibration monitoring system from General Electric Company (GE) at site.
- : On-shore (2010): One month on instruments installation and maintenance, BOILER CONTROL and BMS (HIACS 7000M) from HITACHI.

## **CHRONOLOGICAL EXPERIENCE RECORD**

**Dates** : From Nov. 2012 till now  
**Employer** : Middle Delta Electricity Production Company

**Project** : Banha 750MW Combined Cycle Power Station:

- Two 250MW GE gas turbines frame 9FA with DLN 2.6 + combustion system and MARK VIe as Control system.
- YOKOGAWA DCS (CENTUM VP) for BOP and 2 HRSG control system.

**Job title** : I&C Engineer

**Job Description** :

- Witness installation and commissioning then maintenance responsible of two 250MW GE gas turbines frame 9FA with DLN 2.6 + combustion system and MARK VIe as Control system.
- During installation: witness installation, loop check and commissioning of all instruments, auxiliary systems, control system and interface with DCS of the two GE 9FA gas turbines.
- After installation: all field instruments (thermocouples, vibration, flow, pressure and level transmitters, all servo valves (moog) and pneumatic actuators (fisher)) Calibration, periodic and protective maintenance.
- Control system (Mark VIe) software alarms & troubles analysis.
- Control system (Mark VIe) Hardware periodic, protective and curative maintenance.
- Control system HMI, printers and network periodic, protective and curative maintenance.
- Auxiliary systems periodic, protective and curative maintenance:
  - Bypass stack system (diverter damper) with (control logix Allen Bradley PLC).
  - Gas turbine compressor wash water system with (Siemens S7 PLC).
  - Inlet air filter auto clean system with (compact logix Allen Bradley PLC).
  - Inlet gas heater system with (twido-schinder PLC).
  - VIBRATION monitoring system (Bentley Nevada 3500).
  - CO2 liquid firefighting and alarm system.
- Achievements:
  - Attend complete project installation, commissioning, tests and start-up.
  - Prepare Periodic Maintenance schedule and outage maintenance plan.
  - Spare parts orders and stock availability.
  - Work coordination between other sections.

**Dates** : From Apr. 2018 till Jun. 2018 (part time)

**Employer** : GS E&C

**Project** : ERC Heavy Oil Refinery Project

**Job title** : Function Test Instrument Engineer

**Job Description** :

- Commissioning Engineer.
- Function test all oil refinery system equipment's boilers, air compressors and other utilities DHT, NHT, VDU, SRU, SWS, HPU, HCU flare...
- Honey well control system logic check and apply function test procedure.
- HIMA Max for ESD, BMS AND FGS system function test.
- ALLEN BRADLEY PLC for compressors, pumps and utility systems function test.

**Dates** : From Jun. 2015 till Aug. 2015 (part time)  
**Employer** : ELSEWEDY PSP COMPANY  
**Project** : MAHMOUDIA POWER PLANT  
**Job title** : I&C Commissioning Engineer of two SIMPLE CYCLE ANSALDO gas turbines (2x160MW) fast track project  
**Job Description** : Cold loop check, hot loop check, function check, all instruments commissioning (transmitters, valves, speed & vibration systems, ...) with ABB CONTROL SYSTEM (symphony plus).

**Dates** : From Apr. 2007 till Nov. 2012  
**Employer** : Cairo Electricity Production Company  
**Project** : Cairo West Project (2x350MW oil/gas fired Steam Power Station):
 

- Two steam turbines (from Mitsubishi Company).
- Boilers BMS (burner control system) called HIACS7000M from Hitachi.
- DCS from Yokogawa called CENTUM CS3000 for boiler control.

**Job titles** :
 

- I&C Engineer of two steam generator instruments for two 2x350MW steam turbines
- DCS Engineer of YOKOGAWA DCS (CENTUM CS 3000) for BOP and 2 boilers control system

**Job Description** :
 

- Witness installation and commissioning then maintenance responsible two steam generators (boilers) instruments for two 2x350MW steam turbines.
- During installation: installation and commissioning of all instruments, auxiliary systems and boiler control system that integrated in main DCS system of the two steam generators.
- After installation: all field instruments (thermocouples, vibration, flow, pressure, analyzers and level transmitters, all motorized (auma valves) and pneumatic actuators (fisher)) Calibration and periodic and protective maintenance.
- Control system (IN DCS) software Alarms and signals tracing, hardware failure detection and replacement if required, control system network failure trouble shooting and interface with DCS communication status and failure trouble shooting.
- Control system HMI and printers network maintenance and trouble shooting.
- Auxiliary systems maintenance and trouble shooting:
  - VIBRATION monitoring system (Bentley Nevada 3500).
  - Firefighting and alarm system.
  - Furnace camera (CCTV) television system.
  - CEMS (continuous emission monitoring) analyzers system with (O<sub>2</sub>, SO<sub>2</sub>, CO, NO<sub>X</sub>, opacity) from Forney analyzers.
  - Burner management system (BMS) hardware and software (HIACS 7000M) that control the gas and fuel burners safety and sequence.
  - Soot blower system with Yokogawa PLC (stardom) that cleans boiler tubes.
- Achievements:
  - Prepare Periodic Maintenance schedule and outage maintenance plan.
  - Spare parts orders and stock availability.
  - Lead work team.

**Dates** : From Feb. 2005 till Apr. 2007  
**Job title** : Automation Maintenance Engineer  
**Job Description** :

- Elevators Company: it works in installation and commissioning of electrical elevators.
- ACWATAB Company: it works in the field of water treatment and bottling.
- Toshiba Elaraby for engineering industries: it works in the washing machine Assembly factory.
- Responsibilities:
  - Electrical control classic panels for machines control.
  - PLC control for different machines such as OMRON, SCHNEIDER, SIEMENS.

**Field of experience** :

- 9 years till now as Instrument and Control Construction, Commissioning and Maintenance Engineer in Egyptian Electricity Holding Company at BANHA Combined Cycle Station of Two 9FA GE Gas Turbines with MARK Vie control system (2x250MW).
- 5 years as Instrument and Control Construction, Commissioning and Maintenance Engineer in Egyptian Electricity Holding Company at Cairo West Station of two Hitachi Steam Generators (boilers) supply (2x350MW) Steam Turbines.
- 3 months as a part time job as I&C Function Test Engineer in GS E&C at ERC Refinery Station.
- 2 months as a part time job as Instrument and Control Commissioning Engineer in ELSEWEDY PSP Company at Mahmoudia Station of TWO ANSALDO gas turbines (2x125MW).
- 2 years as Automation Maintenance Engineer in TOSHIBA ELARBY FACTORY.
- Field Instruments inspection, calibration, commissioning and troubleshooting.
- P&ID drawings review.
- Main and AUX Control systems software & hardware Installation, commissioning and troubleshooting.
- Control systems software and hardware installation, commissioning and troubleshooting.
- Maintenance and overhaul schedule and plan.