

Holds a B. Sc. in Electronics & Communication Engineering and has over 11 years hands-on experience, including 9 years working as I&C Commissioning Engineer and 2 years as Operation Engineer at Power Plants.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 16/02/1983  
Gender : Male  
Marital Status : Married  
Residence : Mahmoudia

## EDUCATION

: B. Sc. in Electronics & Communication Engineering, Tanta University, 2005

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

- : GIS – SICAM PAS Training & SIPROTIC 4 - Numerical Protection Devices, SIEMENS Power Academy, Germany. And also this course in El-Atf site, Egypt.
- : HRSG operation and maintenance, NEM Co.
- : HRSG controls and instrumentation, NEM Co.
- : Basic Operation of gas turbine (M701 F), Mitsubishi Heavy Industries, El-Atf site, Egypt.  
I&C Maintenance training of Gas Turbine (M701 F), Mitsubishi Heavy Industries.
- : Steam turbine, generator and condenser operation, Ansaldo Energia, El-Atf site, Egypt.
- : DCS CENTUM CS 3000 R3 Fundamentals for operation, Yokogawa Middle East, El-Atf site, Egypt.
- : Maintenance and operation of horizontal pumps & sump pump, Toshiba, El-Atf site, Egypt.
- : PLC & SCADA – SCHNEIDER ELECTRIC Co.

: Fire Fighting and alarm system – TOSHIBA PLANT SYSTEMS AND SERVICES CORPORATION.

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From May 2009 till now
- Employer** : Middle Delta Electricity Production Company
- Project** : El-Atf Combined Cycle Power Station (750MW):
- 2x250MW Gas Turbine (MHI).
  - 2x360 ton/hr Heat Recovery Steam Generator (NEM).
  - 250MW Steam Turbine (ANSALDO).
- Job title** : I&C Commissioning Engineer
- Job Description** :
- Currently I&C Engineer with the following tasks:
    - Maintenance (software and hardware) of DCS control system (CENTUM CS3000).
    - 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 temperature sensors (RTDs and Thermocouples).
    - Working as Instructor and provide training courses of HRSG Overview, Instrumentation Maintenance and DCS System for Trainers Pre- and Post Graduates.
  - Start-up & commissioning of MHI Gas Turbine.
  - Start-up & commissioning of Heat Recovery Steam Generator NEM.
  - Start-up & commissioning of Gas compressor ATLAS COPCO.
  - I shared 8 Major Inspections to Gas Turbine. Worked as Assembly and Disassemble to all the Instrumentation and Calibration it.
  - Good experience in calibration, test, installation and maintenance for different field instruments in the following systems:
    - Loop check and function test of the following systems:
      - Condensate water system.
      - Demi water system.
      - Potable water system.
      - Circulation water pumps.
      - Service water system.
      - Closed cooling water system.
      - Feed water system.
      - Fuel oil system.
      - Fire alarm system.
      - Waste water system.
      - Main steam system.

- Receiving spare parts from the companies in the project site.
- Performing the loop-checks for all the different kinds of DCS I/O signals.
- Configuring the different kinds of drives for motors and valves in the DCS (CENTUM 3000) with the logic function blocks and the graphic displays.
- Performing Smart Transmitters Configuration for Level, Temperature, Flow, Pressure and Differential Pressure using HART Communicator.
- Performing the function tests and the required modifications in the logic designs and the graphic displays.
- Calibration & installation and maintenance of different types of valves like AUMA, rotork, Fisher.
- Middle Delta Witness Engineer during construction, commissioning and start-up of:
  - MHI Gas Turbine (M701F).
  - DCS (CENTUM CS3000).
  - Heat Recovery Steam Generation (HRSG).
  - Fire Alarm and Fire Fighting.
  - PLC Schneider & SCADA System (MEDIUM AND LOW VOLTAGE SWITCHGEARS).

**Dates** : From Mar. 2007 till May 2009

**Project** : Mahmoudia Combined Cycle Power Station (300MW):

- 8x25MW Gas Turbines (GE).
- 8x45 ton/hr Heat Recovery Steam Generator (NEM).
- 2x50MW Steam Turbines (GE).

**Job title** : Shift Operation Engineer

**Job Description** :

- Conversant with:
  - Unit start-up and shutdown procedures.
  - Monitoring parameters.
  - Testing the equipments.
  - Isolation and de-isolation procedures.
  - Safety work permit system.
- The above mentioned is done for:
  - 8 GE gas turbines 25MW each (MS5001 frame P) and it's related auxiliaries.
  - 8 NEM HRSGs.
  - 2x58MW GE steam turbine and its related auxiliaries.
- And also done for:
  - Condensate system & condensate pumps.
  - Circulating water system & circulation pumps.
  - Feed water system & pumps.
  - Sump pumps.
- I also watch the following maintenance sections for steam turbine GE (58MW) Mark V:
  - Make major inspection.
  - Pumps maintenance and balancing.
  - Overall maintenance for condensate pumps (10 stages), vertical pumps.
  - Maintenance for travel screen and main cooling pumps, hydraulic power unite, air compressors and steam turbine auxiliaries such as ejectors, lubrication system and condenser.