

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.