

Holds a B. Sc. in Industrial Electronics & Control Engineering and has about 15 years hands-on experience, including 11 years working in operation, commissioning and start-up at Power Plants.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 07/02/1982
Gender : Male
Marital Status : Married
Residence : Benha, Qalubia

EDUCATION

: B. Sc. in Industrial Electronics & Control Engineering, Menoufia University, 2006

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

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

TRAINING COURSES AND CERTIFICATIONS

: Electrical Engineering.
: Electrical Power and Machines.
: Industrial Measurement Systems.
: Industrial Electronics and Applications.
: Electrical and Electronic Power circuits.
: Medical Electronics and Medical Instrumentation.
: Production Engineering.
: Control Engineering.
: Linear and Nonlinear Control Systems.
: Intelligent Control Systems; Fuzzy Logic Controllers (FLCs) and Neural Networks (NNs).
: Digital and Real-time Control Systems.
: Industrial Automation Systems; SCADA, DCS and CNC.
: Operation training course of HRSG Boiler Generator & Auxiliaries, Ansaldo Caldaie, Italy (Mar. 2014).

- : Operation training course Distribution Control System Operation, Yokogawa Co., Bahrain (Jul./Aug. 2014).
- : MS 9001FA+e Gas Turbine Operations, GE "General Electric Co.", Benha Power Station (Mar. 2013).
- : Steam Turbine Operations "CT-10064-CP-106", Ansaldo Energia Co., Benha Power Station (from Sep. till Nov. 2014).
- : Trainings at HHI "Hyundai Heavy Industries Co." Benha Power Station:
 - Testing and Operation of 245KV GIS (Apr./May 2013).
 - Vertical Pumps Operation (CWP, SWP, RWP) (from Aug. till Oct. 2014).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jul. 2013 till now
- Employer** : Middle Delta for Electricity Production Company (MDEPC)
- Project** : Benha Power Station Combined Cycle 750MW
- Job title** : Operation Engineer
- Job Description** :
- Attending Installation of Benha Power Station Project (Gas Turbine, Steam Turbine and HRSG).
 - Attending Start-up, Commissioning of Benha Power Station Project (Gas Turbine, Steam Turbine and HRSG), the First Energize of GIS, First Fire for Gas Turbine and the steam blow for HRSG.
 - Operation of GIS 245KV (Monitoring and Maneuvering with Dispatch) for a year.
 - Gas Turbine (MS 9001FA+e) Site and Operation Engineer and for a year.
 - Operation of BOP "Balance of Plant" for a year.
 - Steam Turbine Site and Operation Engineer.
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- Dates** : From Sep. 2018 till Dec. 2018
- Employer** : TECHNET
- Project** : WEST DAMIETTA Power Station
- Job title** : DCS Operator Engineer
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- Dates** : From Apr. 2018 till Jun. 2018
- Employer** : ANSALDO CALDAIE
- Project** : WEST DAMIETTA Power Station
- Job title** : Field Operator Engineer
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- Dates** : From 2010 till 2013
- Employer** : Upper Egypt Electricity Production Company
- Project** : El-Kureimat Power Station
- Job title** : Operation Engineer
- Job Description** : SIEMENS V94.3A, GE gas turbine Frame 9FA, HITACHI steam turbine & CMI HRSG with BOP SKODA.
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- Dates** : From Oct. 2006 till Apr. 2009
- Employer** : Egyptian Army

Project : Military Service

- Field of experience** :
- Operating the boiler properly regarding:
 - Drum level, steam flow and feed water flow rate.
 - Metal temperature of super-heaters, Re-heaters and water drum.
 - Outlet steam properties and inlet feed water properties (temperature, pressure, PH No, conductivity and percentage of silika).
 - Furnace pressure, Inlet air and outlet flue gases properties (temperature, pressure, excess air percent and (CO, CO₂, O₂) percent.
 - Operating all boiler equipments from DCS such:
 - HP / IP Boiler Feed Water Pump.
 - LP Boiler Feed Water Pump.
 - Recirculation Pump.
 - Worked as Field Operator doing the following:
 - Observe operating conditions of all boiler equipment's.
 - Keep readings of equipment parameters (bearing temp, vibration, etc.).
 - Inform shift supervisor with any field troubles or break downs.
 - Isolate any equipment manually as required in work orders to hand over to maintenance.
 - De-isolate the equipment, test operation to take over after finishing maintenance.
 - Steam Turbine Experience:
 - Safe start-up and shut down and active Participation in shutdown activities and start-up activities.
 - Trouble shooting, effective response to emergency conditions and compliance to safety procedures.
 - Ensuring Electrical & Mechanical operating Safety while Issuing Work Permit.
 - Co-ordination with Maintenance team at the time of Annual inspection and shut down.
 - Generators hydrogen charging and discharging activities.
 - Monitoring all equipment's from DCS such:
 - Lube and jacking Oil System.
 - Seal System.
 - ST Bypass system.
 - Bearing Vibration and Temperature.
 - Generator H₂ and Seal Oil System.
 - B.O.P Experience:
 - Perform and assist to achieve the optimum conditions for the unit operation for HP steam, HRH & CRH steam, and LP steam lines as B.O.P operator from field and DCS.
 - Trouble shooting, effective response to emergency conditions and compliance to safety procedures.
 - Isolate any equipment manually as required in work orders to hand over to maintenance.
 - De-isolate the equipment, test operation to take over after finishing

maintenance.

- B.O.P including next equipment's:
 - Pump house (Three circulating water pumps + Two service water pumps).
 - Bearing flushing water skid + sump pumps.
 - Condensate water system.
 - Feed water system (with one start-up electrical pump + two turbine feed water pumps).
 - Demi transfer system and condensate transfer system.
 - Firefighting system.
- Gas Turbine Experience:
 - Gas Turbine "OFFLINE & ONLINE COMPRESSOR WASHING".
 - Performance monitoring and tracking, assisting maintenance in their day to day activities Daily generation report preparation, record keeping, ensuring proper isolation and issuing work permit, ensuring safety of plant, co- ordination with external agencies like PGASCO and inspection and commissioning GE team.
 - Safe start-up and shut down and active Participation in shutdown activities and start-up activities.
 - GAS Turbine & Steam Turbine Generators hydrogen charging and discharging activities.
 - Gas Turbine transfer from liquid oil to gas fuel or from gas fuel to liquid fuel.
 - Familiar with Mark 6E.
 - Trouble shooting, effective response to emergency conditions and compliance to safety procedures.
 - Ensuring Electrical & Mechanical operating Safety while Issuing Work Permit.
 - Co-ordination with Maintenance team at the time of Annual inspection and shut down.

Technical Skills:

- Very good knowledge of Schneider PLC Nano and Micro (Software and Hardware), SIEMENS S7-200 (Software and Hardware), and Allen Bradley PLCs (Software only).
- Very good knowledge of Schneider Zelio (Software and Hardware).
- Very good knowledge of Schneider SCADA software.
- Very good knowledge of PIC Microcontrollers (PIC16F84, PIC16F877).
- Good knowledge of FPGA and VHDL.
- Good knowledge of CNC machines.
- Performing on MATLAB, LabVIEW, EAGLE, Proteus, and MULTISIM.
- Programming using mikroC, C++, Assembly, MBasic and QBasic.