

Holds a B. Sc. in Electronics & Communication Engineering and has over 13 years hands-on experience working in I&C field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 04/06/1981
Gender : Male
Marital Status : Married
Residence : El-Behira

EDUCATION

: B. Sc. in Electronics & Communication Engineering, Tanta University, 2004

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Training on Pacis system of the switchyard on Control 500KV (AREVA), in FRANCE (2009).
- : Training in Nubaria site on steam turbine (MITSUBISHI).
- : Training on vibration analysis system (BENTLEY NEVADA, SYSTEM 1).
- : Training on Operation and Maintenance of Combined Cycle unit (WDEPC).
- : Training on Interconnecting Cisco Networking Devices (CCNA) (2008).
- : Training on 3500 rack configuration software.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jan. 2018 till now
Employer : [EGYPTROL](http://www.egyptrol.com), SIEMENS AG Subcontractor
Project : New Capital Power Station (Cairo) 4 modules – 4800MW Combined Cycle Project:

- 8x400MW Siemens Gas Turbine (8000 H)
- 4x400MW Siemens Steam Turbine (5000)

Job title : 8 HRSG Siemens (NEM)

Job Description : Commissioning Engineer I&C and Start-up for Boiler (NEM), Water system

- Calibration of all types of instruments (pressure transmitters and switches, flow transmitters, level transmitters and switches, all types of thermocouples and RTD).
- Calibration of all types of shut off and control valves (motorized (Auma, smart Auma and SCHIEBEL valves).
- Working on all types of instrument calibration tools.
- Making loop check and function test.
- We made that for all system in HRSG Boiler (NEM), Water system like:
 - Fuel Gas reheating system (EKT).
 - Fuel Gas supply and metering (EKY).
 - HP SEP IP/LP Drum set points (HAD001).
 - HP system FW / Evap (HAD101).
 - HP system S / HTR (HAD102).
 - IP system (HAD501).
 - REHEATER system (HAD502).
 - LP system (HAD801).
 - DIVERTER damper system (MBR101).
 - Exhaust Gas system (HBK101).
 - Feed water system (LAB001).
 - Main condensate supply system (LCA101).
 - AUX steam system (LBG101).
 - Closed cooling water system (PGB101).

Dates : From May 2017 till Jan. 2018

Employer : [EGYPTROL](http://www.egyptrol.com), SIEMENS AG Subcontractor

Project : New Capital Power Station (Cairo) 4 modules – 4800MW Combined Cycle Project:

- 8x400MW Siemens Gas Turbine (8000 H)
- 4x400MW Siemens Steam Turbine (5000)

Job title : Commissioning Engineer I&C and Start-up for Gas Turbine and Gas Station

Job Description :

- Gas turbine instrument cold loop check..
- Proceed process change management activities of the GT panel internal wiring.
- Hot loop check and function test for all GT instruments.
- Calibration valves install at air lines.
- Check the feedback, command and servo valve related to hydraulic valves install at fuel gas line (Pilot, A-stage, B-stage, C-stage, D-stage).
- Calibration Auma valves at Gas station and GT.
- Check All limit switches at GT.
- Familiar with Siemens Turbine control system SPPA T3000.
- Hot loop check and function check for all petro gas station instruments.
- We made that for all system in Gas turbine like:
 - Gas turbine MBA, MBD.
 - Blow off system MBA4.
 - Pneumatic system MBX.
 - Turbine cooling air MBH.
 - Combustion chamber MBM.

- Lube / lifting oil MBV and Turning gear MBK.
- Hydraulic clearance optimization MBA5.
- Fuel gas system MBP.
- Hydraulic oil supply MBX.
- GT air intake MBL.
- GT Exhaust MBR.
- GT Enclosure ventilation SAM30.
- Gas turbine control MBY.
- Fire and Gas protection.

Dates : From Feb. 2017 till May 2017

Employer : Middle Delta Electricity Production Company

Project : Nubaria Power Station I & II – 2x750MW Combined Cycle Project

Job title : I&C Maintenance Engineer for SIEMENS Gas turbine V94.3A (4000 F)

Job Description :

- Overhaul maintenance of Gas turbine Siemens at Nubaria Power Station and Upgrade the control system of software Teleperm XP T2000 to Turbine control system SPPA T3000.
- Basics of network engineering and specific aspects of network administration.
- System: hardware and software architecture.
- Engineering: function diagram, plant display, archive, integrated engineering, using AF blocks and prototypes creating macros, creating trend displays.
- Basic operation: display navigation, alarm sequence display, trouble shooting, trends, diagnostic view, dynamic function diagram.
- Commissioning: point view, online change of parameters, forcing ports.
- System analysis tools.
- Theory of data archiving and handling of data storage.
- Back up and restore for SPPA T3000 thin clients.

Dates : From Nov. 2016 till Feb. 2017

Employer : [EGYPTROL](http://www.egyptrol.com), SIEMENS AG Subcontractor

Project : New Capital Power Station (Cairo) 4 modules – 4800MW Combined Cycle Project:

- 8x400MW Siemens Gas Turbine (8000 H)
- 4x400MW Siemens Steam Turbine (5000)

Job title : Commissioning Engineer I&C and Start-up for Gas Turbine and Gas Station

Job Description :

- Gas turbine instrument cold loop check.
- Proceed process change management activities of the GT panel internal wiring.
- Hot loop check and function test for all GT instruments.
- Calibration valves install at air lines.
- Check the feedback, command and servo valve related to hydraulic valves install at fuel gas line (pilot, A-stage, B-stage, C-stage, D-stage).
- Calibration Auma valves at Gas station and GT.
- Check All limit switches at GT.
- Good deal with Siemens Turbine control system SPPA T3000.
- Hot loop check and function check for all petro gas station instruments.

Dates : From Aug. 2015 till Nov. 2016
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Nubaria Power Station I & II (2x750MW Combined Cycle)
Job title : I&C Maintenance Engineer for SIEMENS Gas turbine V94.3A (4000 F)

Dates : From Mar. 2015 till Aug. 2015
Employer : Elsewedy Electric T&D
Project : 9 sites Power Station 25MW Simple Cycle Projects in Egypt: Cairo (Heliopolis, Cairo East, Elbasatin), Assiut (Bani Ghaleb, New Assiut, Assiut Elhamra), Sohag (Gerga), Elmenia (West Malawy, Samalout West)
Job title : Commissioning Engineer I&C and Start-up for Gas Turbine GE Power & Water (20 x TM 2500+ Emergency Power Projects in Egypt)
Job Description : Good experience in GE Gas Turbine TM2500 in the following systems:

- Dual fuel system with water injection system.
- Ventilation and combustion air system.
- Hydraulic start system.
- Turbine lube oil system.
- Gen. lube oil system.
- Off-Line water wash system.
- Instrumentation auxiliary system.
- Vibration monitoring system.
- Fire protection and gas detection system.
- Low voltage AC & DC system.
- SENS battery charger.
- Communication gate way module.

Dates : From Nov. 2011 till Mar. 2015
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Nubaria Power Station I & II (2x750MW Combined Cycle)
Job title : I&C Maintenance Engineer for SIEMENS Gas turbine V94.3A (4000 F)
Job Description : Good experience in Siemens Gas Turbine V94.3A in the following systems:

- Fuel gas commissioning and start-up for overhaul maintenance.
- Fuel oil commissioning and start up for overhaul maintenance.
- Major and minor inspection for the gas turbine.
- Hot gas path inspection.
- Automation control system (TELEPERM XP AS620) for modification, simulation and buck up.
- Fail safe control system.
- Gas turbine tuning and optimization.
- Troubleshooting of the control system problems.
- Calibration of the field devices (transmitters, switches, gagesetc.).
- Fault analysis using the OM 650 display facilities.
- Tools for system analysis, administration, event managing of OM650.
- Analysis hardware and software errors.
- Dealing with the input/output cards, installation, Programming and faults recovery.
- PLC programming and troubleshooting.
- Temperature sensors (RTD and thermocouple) faults recovery.
- Gas detection system, fire alarm system and fire fighting system.

- Perform the routine maintenance of the system Components.
- Air compressor as Atlas Copco and BOOGy HYDAC skid (hydraulic skid used for diverter damper system).

Dates : From Jun. 2011 till Nov. 2011
Employer : Kharafi National
Project : Al-Shabab Power Station 8x125MW Simple Cycle Project
Job title : Commissioning Engineer I&C and Start-up for Gas Turbine GE Energy (Mark 6E)
Job Description :

- Calibration of all pressure transmitter, flow Transmitter, pressure switches, level switches, all Type of RTD and thermocouple.
- Calibration of all valves control as (SRV, IGV) Pneumatic and shut off valves.
- Calibration of Inlet Guide Vane of the inlet of the Compressor.
- Making Loop check and function test.
- Adjust the Turbine Supervisory Instrument such as (Radial vibration, keyphasor, seismic vibration and speed) sensors.
- Calibration of all hazard Gas detector.
- Commissioning of Flame Detector Intensity and Flame Detector Ultraviolet.
- Commissioning of Fire Fighting Protection System.

Dates : From May 2010 till Jun. 2011
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Nubaria Power Station I & II (2x750MW Combined Cycle)
Job title : I&C Maintenance Engineer for SIEMENS Gas turbine V94.3A (4000 F)
Job Description : Good experience in Siemens Gas Turbine V94.3A in the following systems:

- Fuel gas commissioning and start-up for overhaul maintenance.
- Fuel oil commissioning and start-up for overhaul maintenance.
- Major and minor inspection for the gas turbine.
- Hot gas path inspection.
- Automation control system (TELEPERM XP AS620) for modification, simulation and buck up.
- Fail safe control system.
- Gas turbine tuning and optimization.
- Troubleshooting of the control system problems.
- Calibration of the field devices (transmitters, switches, gagesetc.).
- Fault analysis using the OM 650 display facilities.
- Tools for system analysis, administration, event managing of OM650.
- Analysis hardware and software errors.
- Dealing with the input/output cards, installation, Programming and faults recovery.
- PLC programming and troubleshooting.
- Temperature sensors (RTD and thermocouple) faults recovery.
- Gas detection system, fire alarm system and fire fighting system.
- Perform the routine maintenance of the system Components.
- Air compressor as Atlas Copco and BOOGy HYDAC skid (hydraulic skid used for diverter damper system).

Dates : From Jan. 2007 till May 2010
Employer : Middle Delta Electricity Production Company (MDEPC)
Project : Nubaria Power Station I & II (2x750MW Combined Cycle):

- Four SIEMENS gas turbines 4x250MW.
- Two MITSUBISHI steam turbines 2x250MW.
- Four ALSTOM heat recovery steam boiler (HRSG).

Job title : I&C Maintenance Engineer
Job Description :

- Responsible for the routine and the corrective maintenance for the Steam turbine control system (Operation, Monitoring System and Engineering System) and its instrumentation.
- Receiving spare parts from the companies in the project site.
- Maintenance for debris filter and condenser tube cleaning system.
- Make overhaul maintenance for steam turbine with MITSUBISHI and gas turbine SIEMENS.
- Maintenance for circulation water pump, service water pump and closed cooling water pump.
- I was responsible for the following notes for control system in HMI:
 - I am able to deal with the software DYASYS Netmation of HMI which use the version of DYASYS –IDOL++.
 - I can deal with Object Database (ORCA) which stored in EMS and also Software of Work space Manager (WSM) which stored in OPS.
 - I can deal with the logic operation in OPS.
 - Good using of the engineering station (EMS) as a Powerful tool in the control system.
 - I can make many modifications on the Graphic for the system and down load the Graphic or database.
 - I can make many modifications on the logic for the system and down load the logic or database.
 - I can make valve tuning.
- Overhaul Maintenance for steam turbine:
 - STG1X (from 04/03/2008 to 05/05/2008).
 - STG2X (from 13/02/2010 to 15/04/2010).
- Commissioning Engineer I&C and Start-up.

Dates : From Jan. 2006 till Jan. 2007
Project : Nubaria Power Station I & II (2x750MW Combined Cycle)
Job title : I&C Construction, Commissioning & Start-up Engineer
Job Description :

- Responsible of review all I&C drawings & Submittals for steam turbine (MITSUBISHI).
- I was West Delta Witness Engineer during construction, commissioning and start-up of the steam turbine.
- Approving design & submittals, site acceptance tests, commissioning for steam turbine generator (MITSUBISHI).
- Responsible for review all technical submittals auxiliaries of the steam turbines (Circulation water pump, service water pump, closed cooling water pump, debris filter and condenser tube cleaning system).
- Calibration of all instruments in field (pressure transmitters & switches, level transmitters & switches, thermocouples, smart valves).
- Review and comment on all I&C construction documents and drawings

(P&ID).

- Verify all required erection drawings, standards, procedures & project specifications have been received by contractor.

Dates : From Jun. 2005 till Dec. 2005
Employer : High Dam Electrical & Industrial Projects Co. (HIDELECO)
Job title : Electrical Engineer