

Holds a B. Sc. in Communications & Electronics Engineering and has about 11 years hands-on experience working in I&C field.

PERSONAL DATA

Nationality : Egyptian
Gender : Male
Marital Status : Married

EDUCATION

: B. Sc. in Communications & Electronics Engineering, Zagazig University, 2005

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Electrical Maintenance training for SGT5-2000E GT package at Attaka site Egypt (certified from Siemens Germany).
- : Basic operation training (BOT) for SGT5-2000E GT package at Attaka site Egypt (certified from Siemens Germany).
- : DCS (Honeywell TPS) training in East Delta for Power Production.
- : Industrial instrumentation and control course.
- : English courses in American University in Cairo.
- : Boiler Control System (BCS) and Burner Management system (BMS) training in Ministry of Electricity and Water (MEW) in Kuwait.
- : DCS Metso Automation DNA system Application engineering and OPC (DA) training course.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Sep. 2016 till now
Employer : Elsewedy for power system projects
Project : Beni Suef Combined Cycle Power Plant (SGT5-8000H)
Job title : Lead I&C Commissioning & Start-up Engineer

Job Description :

- Make hot loop check for all turbine instruments and adjustments for all mounted valve limit switches.
- Doing the gab voltage adjustment for GT/generator bearing relative vibration system and check the signals with vibrometer monitoring system.
- Support mechanical stuff in adjusting IGV/VGV system and calibrate the cubler position sensor.
- Check and completeness of the handed over construction work and working to close all LOP (LIST OF OPEN POINTS).
- Siemens TCS signal hot loop check and testing for all interconnection cables.
- Hot loop check for all interface signals with SWGR's and other packages.

Dates : From Mar. 2016 till Aug. 2016
Employer : HHI (Hyundai Heavy Industries)
Project : Jeddah South Thermal Power Plant (Stage 1)
Job title : Sr. I&C Commissioning & Start-up Engineer
Job Description :

- Doing the required hot loop checked for all types of field in instrument with Yokogawa centum VP, Siemens s7-400.
- Testing and troubleshooting Auma actuators and signal testing.
- Check the function and hot commissioning for filed drives.
- Preparing daily activity proposal and next day activity.
- Commissioning for MOVs connected through profi-bus and testing the signals with DCS.
- Tuning and pre-startup for FGD units.

Dates : From Jan. 2015 till Mar. 2016
Employer : Elsewedy for power system projects
Project : Attaka Simple Power Plant (165MW x 4 Units) (Siemens (SGT5-2000E))
Job title : Lead I&C Commissioning & Testing Engineer
Job Description :

- Installing and commissioning of all SGT5-2000E I&C related equipment's.
- Fuel oil / Fuel Gas skids hot commissioning and signals loop check with TCS.
- Testing and function check for all fail safe and GT hardware trip signals.
- Signal testing and hot commissioning for all gas turbines GIS signals and back energize testing.
- Doing all testing and configuration for BOP firefighting system (Lite-Fire honeywell System).
- Function check and process testing for Gas turbines Fin-Fan cooler system and connecting all signals interfaces to TCS.
- Ensure equipment erection & commissioning for safety critical items meets acceptable standards.
- Siemens GT instrument installation as per approved hook up.
- Doing the required calibration for all Base module and blow-off instruments.
- BOP instrument calibration and preparing the required hook-up.
- Siemens TCS signal hot loop check and testing for all interconnection cables.

- Doing field and PCC Vibrometer system testing and fixing all GT/Generator vibration sensors (Absolute or Relative).
- Combustion chamber / Flame signals cable termination and hoot loop checked.
- Installing/Handing over all I&C packages as per Siemens field quality plan.
- Advise on fabrication, construction, installation and commissioning completion techniques.
- Update of P&ID's with as built's and submission to engineering department.

Dates : From Jun. 2015 till Aug. 2015

Employer : Elsewedy for power system projects

Project : Mahmoudia Simple Power Plant (165MW x 4 Units)
(Ansaldo Energia gas turbines (V94.2))

Job title : Lead I&C Commissioning & Testing Engineer

Job Description :

- BOP firefighting system configuration and start-up.
- Testing and hot commissioning for Fuel oil skid and signal loop checking.
- Following the submitted pre-commissioning and commissioning activities, pre-commissioning & commissioning plan.
- Responsible for checking signals between Control System and Gas Turbine field devices.
- Responsible for testing the functionality and protections, as well as tuning and optimizing the Gas Turbine Operations.
- Ensure work is carried out in accordance with relevant Codes, Standards and Procedures (Company and Project).
- Advise on fabrication, construction, installation and commissioning completion techniques.
- Serve as technical specialist in all matters relating to commissioning completion and start-up of all instrumented systems and equipment.
- To assist construction departments by defining of priority systems according with overall construction and pre-commissioning & commissioning planning and schedule.
- Check all signal interfaces between TCS and BOP system.

Dates : From Apr. 2013 till Dec. 2014

Employer : Kharafi National

Project : Doha West Steam Power Plant (300MW x 8 Units), KUWAIT project No.1725

Job title : I&C Engineer

Job Description :

- Deep understanding of sequence for the boiler process control system.
- Maintenance for Turbine supervisory instrument (TSI) for steam units.
- Hands-on proficiency in tuning boiler control system parameters.
- Following up and troubleshooting all network faults in Boiler control system.
- Monitoring Gas oil and Crude oil HIPPS system (High Integrity Pressurized Protection System) and perform its proper maintenance.
- Maintain any problem in the plant control system.
- Following any defects or process troubles in the plant Auxiliaries.
- Upgrading the temperature monitoring system for the Instrument air

- system compressors and boiler drives.
- Installation of Continues dosing chlorination valves in the plant intake area.
- Finalizing any problem in the Burner protection system in the BMS of the boilers.
- Following up the new tenders for new GAS oil and HFO system up gradation in the plant with the subcontractors.
- Installation and commission for new flame detectors in the boilers.

Dates : From Mar. 2012 till Mar. 2013

Employer : Kharafi National

Project : West Damietta (125MW x 4 Units) Simple Cycle Gas Turbine, EGYPT project No.3046

Job title : DCS Engineer

Job Description :

- Fiber Optics networking design.
- Splicing testing with Fluke device to determine the attenuation in each F.O core.
- GE Mark VI Data access CIMPLICITY server OPC configuration and application engineering for all GT turbines in DCS system from metso client host side.
- Analyzing the systems to implement interface logic.
- Graphics and HMI implementation and modification according client requirements.
- All field signals related to DCS system designing and termination.
- Implementing the required logics for all SWGR (LV or MV) interlocks and signaling indications (Schneider SWGR).
- Signaling and logic interface for all transformers (HHI) related to DCS (hardwiring signals).
- GE-PEECC signal interface (hardwiring signals).
- SAS (GIS - Substation Automation System) OPC (DA) server /Client configuration and doing application engineering of all DCS signals.
- SWGRs protection relay (SEPAM) Modbus-RTU interface.
- METSO DCS commissioning and functional test with all plant component and systems.
- I/O list designing and field wiring (DCS SIGNALS) Engineering work.
- OPC and MODBUS I/O list engineering work according required DCS signals.
- METSO-DCS networking engineering and system FAT (Cisco networking function testing).

Dates : From Nov. 2010 till Feb. 2012

Employer : Kharafi National (KUWAIT)

Project : Shuwaikh Power Generation & Water Distillation Station, Kuwait MEW project No.1620

Job title : I&C Engineer

Job Description :

- Safety barriers installation in GAS inlet area for all kinds of I/O.
- Analyzing and maintenance of any process control disturbances.
- Implementation and designing the control logic for drives and sequential control processes.
- Implementation and designing any DCS control loop for any kind of

process variable.

- To maintain and investigate component and system faults and to make recommendation to prevent a re-occurrence.
- To carry out replacement and up gradation of pneumatic instruments with smart and intelligent instruments.
- To carry out commissioning & maintenance jobs in accordance with all the safety rules in order to avoid accidents and to insure the proper working of it.
- Analyzing and understands P& I drawings, loop wiring diagrams, signal flow diagrams and SAMA drawings.
- To carry out calibration of instruments, fault finding and rectify the fault in order to avoid a re-occurrence.
- To carry out calibration of transmitters using dead weight testers, manometers, DP gauges.
- To carry out calibration for all field instruments.

Dates	:	From Oct. 2006 till Nov. 2010
Employer	:	East Delta for Power Generation Co.
Project	:	Abu Sultan Steam Power Generation Station
Job title	:	I&C Engineer
Job Description	:	<ul style="list-style-type: none">• Responsible for developing and designing new control systems.• Maintaining and calibrating all control valves in the field.• Expert instrumentation & control installation abilities.• Perform the proper operation of the DCS as control system.• Maintain any problem in the DCS system during the normal operation.• Ensure the good work of all instruments and devices in the power station.• Acquiring and fixing any problem in the station control network systems.• Experience in troubleshooting and analysis of equipment and system performance.• Extensive experience in Electronics devices & control systems.• Experience in construction of Electronics devices & control systems.• Responsibilities included:<ul style="list-style-type: none">- Fault finding, Calibration and Inspection of:<ul style="list-style-type: none">▪ Pneumatic and electronic control loops.▪ Pneumatic and on/off valves.▪ Transmitters (Pressure, Flow and Level) using SFC.▪ Positioners and Controllers using HART Communicator.- Routine, Corrective, preventative maintenance:<ul style="list-style-type: none">▪ Burner Control System (BCS).▪ Burner Management System (BMS).▪ Air Compressor.▪ Soot Blowing System.▪ Fire Protection System.- Analyze and diagnose instrumentation and equipments problems using P&ID, Ladder diagram, SAMA drawing and network charts.- Maintenance activities on DCS "Honeywell TPS" including:<ul style="list-style-type: none">▪ Checking System Status.▪ Saving Checkpoints and System Backup.

Technical Skills:

- DCS control systems and all of its standards.
- Ability to troubleshoot, repair and maintain instruments and instrumentation systems.
- Extensive knowledge of Instrumentation Design & Control Design Process.
- Extensive knowledge of Engineering process control logics and software.
- Using C++ as computer programming languages.
- Good knowledge in Foundation FiledBus.
- OLE for Process Control (OPC) Experienced engineering.
- Good knowledge of operating systems operation and design (Linux "Ubuntu & Redhat" or MS Windows).

Summary:

- Good experience in implementing control solutions in GT systems.
- Gas Turbine processes checking up / Function testing for I&C related systems.
- Experience in Siemens power plant automation SPPA-T3000.
- Good understanding of KKS identification system related to Siemens Gas turbine systems.
- Professional implementation of the process control philosophy and drives logic.
- Solution provided for power plants and water distillation plants.
- Responsibility of commissioning for DCS systems and performing the required other systems interfaces.
- Main focus on process control designing.
- Analyze maps, reports, tests, drawings, and other data to design and plan the work.