

Holds a B. Sc. in Electronics & Control Engineering and has over 16 years of experience as an Instrumentation and Control Engineer in detailed maintenance, commissioning and development coordination of instruments and control systems in Power Plant and Mixing Plant projects.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 08/09/1983
Gender : Male
Marital Status : Married
Residence : Nasr City, Cairo

EDUCATION

: B. Sc. in Electronics & Control Engineering, Menoufia University, 2005

LANGUAGES

Arabic : Native Language
English : Fluent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet
: AutoCAD
: PLC Programming: Ladder Diagram, function block
: SAP

TRAINING COURSES AND CERTIFICATIONS

: GE MARK VIe DCS Maintenance, Qassim (2017).
: Bentley Nevada Machinery diagnostics using system 1, Qassim (2017).
: Steam turbine generator and auxiliaries, Qassim (2017).
: Boiler feed pumping I&C maintenance, Qassim (2017).
: GE MARK VIe Gas turbine controls maintenance & operation, Qassim (2016).
: ISO1901:2011 standard training, Riyadh (2016).
: Nuclear safety and security training, Riyadh (2015).
: ALFA-LAVAL fuel oil treatment system, Qassim (2014).
: Risk analysis, Qassim (2014).
: Control in motors by using contactors (2011).

- : DCS Mark VIe control system in Cairo North Power Station project in operation and maintenance (2010).
- : PLC Siemens step 7 (2010).
- : Operation and maintenance of Steam Power Plant (BECHTEL) at Shoubra El-Kheima Power Station Training Center (intensive training course), 2 months: Fundamentals and Applications of the following equipments and items: Steam and water cycles, Water treatment and Demineralization, Pumps, Heat Exchangers (2008).
- : ICDL/ECDL (2007).
- : MICROCONTROLLER (2006).
- : MICROPROCESSOR (2006).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jul. 2020 till Apr. 2021
- Employer** : [EGYPTROL](#), DOOSAN Heavy Industries & Construction Subcontractor
- Project** : Assiut Supercritical Power Station – 1x650MW
- Job title** : E&I Commissioning Engineer
- Job Description** :
- Installation and commissioning for steam turbine & auxiliaries.
 - Manage, perform, coordinate, and monitor Steam Turbine site activities.
 - Perform on-site installation of systems and equipment and ongoing preventive maintenance, repair and calibration after installation.
 - TCS SIEMENS SPPA-T3000 System power up panels.
 - Ensure the correct installation, pre-commissioning, commissioning and maintenance practices are followed.
 - Provide general knowledge of equipment instrumentation calibration, including various types of transmitters.
 - Overall responsibility of the management of site activities including planning, organizing, integrating and directing of resources such as labor, tools and materials as required to complete the work scope according to contractual requirements.
 - Perform administrative functions such as: writing technical reports, ordering materials, securing quotations, preparing job status reports, reports to commissioning manager, time sheet and expense sheets.
 - Commissioning and calibration of the control valves (Pneumatic, MOV).
 - Installation, calibration and loop checking of the field instruments (MOV, CV, sensors, transmitters).

- Dates** : From Dec. 2017 till Apr. 2020
- Employer** : [EGYPTROL](#), GE Energy Subcontractor
- Project** : Assiut Add-on Combined Cycle Power Plant:
- 8 HRSG units, 2x250MW STG GE.
 - 2 combined cycle DCS MARK VIe control system.
- Job title** : DCS / ICS Commissioning Engineer
- Job Description** :
- Installation and commissioning for 8 HRSG and 2 steam turbines DCS with total 500MW.
 - DCS System (Mark VIe) power up panels, EWS, OWS, Toolbox ST installation.
 - Toolbox ST Software modification, hardware installation.

- DCS troubleshooting software and hardware.
- Cimplicity HMI configuration and screens modification.
- I&C commissioning (loop check, function test, logic test) for HRSG, ACC, ST.
- Tuning HRSG LCVs.
- Field instrument troubleshooting & calibration (MOV, CV, sensors, transmitters).
- BOP monitoring, Instrument/Control maintenance on site.
- Setting of network IP configuration for work stations and controllers.
- Verification & correction of I/O configuration.
- Rectifying diagnostic alarm faults.
- Maintain strong safety mindset to assure the executed work reflects the technical requirements within GE safety standards.
- Ensure all parts needed for the job are shipped to the site.
- Perform walk-downs during installation to ensure that the customer's contractors are working properly.
- Performing Performance Test, Reliability Run.
- Commissioning for diverter damper interface signals with DCS.
- Perform all necessary activities for corrective and preventive maintenance for Gas turbines GE 9E.

Dates	:	From Jun. 2014 till Jun. 2017
Employer	:	Saudi Electricity Company, Qassim – Saudi Arabia
Project	:	Al Qasim Power Plant, Add-on Combined Cycle Conversion Project
Job title	:	I&C / DCS Commissioning Engineer
Job Description	:	<ul style="list-style-type: none"> • Qassim combined cycle conversion project I&C commissioning witness all activity (loop check, function test, logic test, control function test, ...). • Review of technical documents submitted by contractors. • Perform walk-downs during installation to ensure that the contractors are working properly. • Leading a team of instrument technicians. • Perform all necessary activities for corrective and preventive maintenance as per O&M manual for Gas turbines: 12 GE Gas turbine 65MW frame 7E units, MARK VIe control system. • Reporting periodically to Maintenance Manager; preparing PM and CM reports. • Troubleshooting the control and DCS, software and hardware. • Planning required upgrading for instruments and control systems to achieve production quality and cost minimizing. • Maintenance and calibration of flowmeters (electromagnetic, orifice plate, variable area, ultrasonic, ...). • Maintenance and calibration of transmitters PT, LT, TT, DPT and vibration monitoring transducers. • Performed outages & reports (CI, HGPI) of gas turbines. • Troubleshooting the dosing pumps. • Ensure Spares balance and inventory control for all instruments' spare parts. • Prepare all types of scope of work. • Tender documents reviewing and studying. • Preparing work clearance management for all I&C plant equipment.

- I&C problems solving using SOLOGIC root cause analysis.

Dates : From Sep. 2010 till Jun. 2014

Employer : CEPC

Project : Cairo North CC Power Station 2x750MW

Job titles : I&C Maintenance Engineer

Job Description :

- Perform all necessary activities for corrective and preventive maintenance as per O&M manual for Gas turbines, HRSGs, Steam Turbines:
 - 2 MHI Gas turbine 250MW units, Diasys Netmation control system.
 - 2 GE Gas turbine 250MW frame 9FA units. MARK VI control system.
 - 1 Hitachi steam turbine 250MW with MARK VI control system.
 - 1 Alstom steam turbine 250MW with combined cycle DCS MARK VI control system.
- Perform all necessary activities for various heavy-duty gas turbines that include maintenance, troubleshooting, fixing and working on software & instruments, perform all applicable TILs to units through our dashboard.
- Responsible for Prepare Spare Parts for Gas turbines, auxiliary Systems and MKVI Gas Turbine during Preventive maintenance and outages.
- Performed more than 30 outages (CI, HGPI, MI) of gas turbines (MHI & GE).
- Mark VI Gas Turbine Controls experience.
- Calibration for servo valves.
- Calibration for transmitters (pressure, flow, temperature, and level), switches (press, temp) Rosemount and Yokogawa types by Hart communicator 375 & 475.
- Calibration for (PH, Conductivity, dissolved oxygen) sensor.
- Raw water Pre-treatment system maintenance.
- Wastewater treatment.
- Flootation and Oil disposal system.
- Other system: chlorination, HRSG chemical dosing, sample system, sewage, Hydro pneumatic.
- Potable water system.
- Maintenance of silica analyzer, turbidity sensor.
- Maintenance and calibration of pneumatic control valves and part turn actuated valves.
- Maintenance and calibration of different analyzers: Conductivity, Chlorine, PH, SDI, Redox, Turbidity, TDS.

Dates : From May 2008 till Sep. 2010

Employer : CEPC

Project : Cairo West Thermal Power Station 2x350MW

Job titles : I&C Construction & Commissioning Engineer

Job Description :

- Study of contracts related to Cairo West Power Plant Project.
- Analysis of technical offers submitted by bidders & make negotiations with successful bidder.
- Review of technical documents submitted by contractors.

Dates : From Jan. 2008 till May 2008
Employer : Power TEK AUTOMATION
Job title : Automation Engineer
Job Description :

- Configuring and faults diagnosis of PLC.
- Troubleshooting, Commissioning and providing solutions.

Dates : From Apr. 2006 till Jan. 2008
Employer : UTC (United Trade & Contractors), Cairo
Project : Cairo Airport, General Organization for Export & Import Control Building
Job title : Electrical Site Engineer
Job Description : Installation of the following:

- U.P.S systems & networks - security Cameras.
- Sound System - Lighting systems - Power Networks.
- Telephone systems & central - Fire Alarm.
- Air conditioning systems - Video conference - Data Network.
- Test and start-up of Electrical motors & pumps.
- Voltage and current transformer - Generator protection relay - Generator control panel (ATS).
- Grounding grid.

Field of experience :

- Configuring and faults diagnosis of DCS, PLC, Analyzers and Control Loops.
- Experience on Mark VI, Mark Vie, controls systems.
- Understand PLC ladder logic, including basic understanding of how to navigate through ladder rungs while troubleshooting, Siemens simatic S7 200, 300, 400 and Allen Bradley1756, RS view software for operator station and lap top engineering station RS logics 5000 Software.
- Experience with Gas Turbines GE 9FA, 9E, 7E.
- Experience with Gas Turbines Driver Control Systems and Auxiliary Systems.
- Experience with Steam Turbines Driver Control Systems and Auxiliary Systems.
- Ability to understand and implement controls software.
- Experienced in flow meters configuring (electromagnetic, orifice plate, ultrasonic, turbine).
- Implementing and Commissioning of new control loops as per site requirements.
- Review of control philosophy, P&I diagrams, cause & effect diagrams, instruments list, flow chart.
- Familiar with engineering standards ISA, IEEE, ASTM, NAMUR, ASMI, ANSI, NEMA, IEC.
- Preparing master data sheet for PM schedule; ensuring safe and efficient performing of CM.
- Technical Support for the instrumentation team.
- Experienced in the field instruments and control systems procurement activities.
- Extensive travel to and from projects and various field assignments.