

Holds a B. Sc. in Computer & Control Systems Engineering and a Higher studies Diploma in Control Systems. Has over 15 years hands-on experience, including 12 years working in commissioning, maintenance and operating of large modern combined cycle power plant.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 15/05/1982
Gender : Male
Marital Status : Married
Residence : Damietta

EDUCATION

: B. Sc. in Computer & Control Systems Engineering, Mansoura University, 2004
: Higher studies Diploma in Control Systems, Mansoura University, 2007

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: SPPA T 3000 courses certificate from Siemens Power Academy, Karlsruhe, Germany:

- SPPA T3000 FT stratus application server maintenance T3MS-FT.
- I&C maintenance SPPA T3000 S7 automation server and field SIM modules T3MAF.
- SPPA T3000 administration and commissioning part 1 T3ADM1.
- SPPA T 3000 fail-safe system T3PROT.

: Condition monitoring system SKF, certified from Samsung C&T.

: HRSG and Steam turbine familiarization certified from East Delta Electricity Production Company, Egypt.

: Gas turbine familiarization certified from East Delta Electricity Production Company, Egypt.

: Embedded systems certified from Egyptian Syndicate.

: Introduction to PLC certified from GESCO Group, Egypt.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Dec. 2014 till now
- Employer** : East Delta Electricity Production Co.
- Project** : Damietta Power Plant include six gas turbines type Siemens SGT5-2000E (V94.2) – six HRSG manufactured by Borsig Germany – three Steam Turbines GEC ALSTHOM in the combined cycle and four gas turbines type GE Frame 9E in simple cycle
- Job title** : Senior Instruments and Control Systems Engineer
- Job Description** :
- Participate in the upgrade for 6 SIEMENS gas turbines from Teleperm ME to SPPA T3000 and this include the following tasks:
 - Power up CRY cabinet, review the network, configure XEN server.
 - Review CJR cabinet, power up, perform commissioning for S7 416-5h automation server with FM458 and fail safe.
 - Upgrade the licence for T3000 and Upgrade the firmware for S7 CPU and CP443-1.
 - Check the Profibus communication between automation server, FUM racks, ET 200M, ADDFEM fast I/O, Profisafe flight recorder and SFC/SEE system
 - Export the project, import it in another group, do copy and modify.
 - Perform loop check to verify all signals after remove old system. DO function test and take the necessary action to solve any troubles.
 - I design new plant display for monitor T3000 hardware (SCALANCE, Application server, time server and UPS) using management proxies.
 - Familiar with failsafe system engineering requirement and diagnosis.
 - Familiar with engineering requirement for Turbine governor FM458.
 - Familiar with using of T3000 system analysis tools (alarm sequence display, diagnostic view, Simatic manger and SPPA T3000 admin console) to verify the quality and the system healthy.
 - Perform tests for all T3000 components (automation server with fail safe, FM458, ADDFEM, ET200M and FUM system and optical switch modules SCALANCE to validate the redundancy.
 - Develop, implement and review a preventative maintenance system including monitor equipment availability, recommend on spare holdings and oversee maintenance operations so to meet production objectives.
 - Responsible for periodic maintenance, troubleshooting and Propose/Design any modification required of:
 - GE gas turbines MARK VIE and field instruments.
 - YOKOGAWA CENTUM VP DCS system and field instruments.
 - Schneider premium hot standby PLC, Advanty distributed I/O.
 - GIS with Siemens substation automation system SAS.
 - Network (Ethernet, Modbus, profibus, OPC, Fiber Optics, and RS485).
 - Assist in the promotion of a positive safety culture so that safety is main priority.
 - Perform planning, scheduling and implementing maintenance management system using CMMS.

Dates : From Feb. 2018 till Dec. 2018 (part time)
Employer : ORASCOM Construction
Project : West Damietta Combined Cycle Power Plant 750MW
 (4 GE frame 9E gas turbines, 4 Doosan HRSG, 1 GE ALSTOM steam turbine)
Job title : GE MARK VIE DCS Engineer
Job Description :

- Conduct logic and interlock test on each system to verify if system automation is properly implemented as per design and specifications.
- Supervise loop and functional testing on all BOP control systems.
- Assist in training "DCS MARKVIE for operators".
- Work as Shift Charge Engineer and supervise the operation during plant tests.

Dates : From Aug. 2013 till Oct. 2014
Employer : First National Operation and Maintenance Company (NOMAC), KSA
Project : Qurayyah Independent Power Plant 3990MW:

- 12x230MW Siemens STG 6 5000F Gas Turbines (T3000 operating).
- 12x352 T/H HRSG (BHI Korea).
- 6x230MW Siemens STG 6 4000 Steam Turbine (T3000 operating) and 6 condensers.
- 13 Atlas Copco Gas Compressors 38 bars with 1 chromatographs system, 7 DPH Dew Point Heater, 2 units of Nitrogen generators, 8 Air compressors, 2 Groups of Chillers each one by 8 modules and 10 secondary pumps, Fire Fighting...etc.).
- Reverse Osmosis -3 trays- each one 250 ton/hr.
- Demineralization, waste water system, ECP (Electro chlorination plant).
- 6x2MW Diesel Generators.

Job title : I&C Supervisor
Job Description :

- Assist in Heat recovery steam generators (HRSG) field instrumentation commissioning and configuration.
- Participate in planning for required spare parts and tools.
- Make schedule for periodic and preventive maintenance for HRSG.
- Wake down and make punch items list for HRSG field equipment and controller enclosure.
- Participate in redundancy test for HRSG and STG BOP T3000 equipment including S7 fail safe automation server and AS3000, SCALANCE OSM, Optical link modules OLM11, IE/PB link.
- Review all HRSG plant displays and logics with P&ID and loop diagrams.
- Attend some gas turbine commissioning, start-up and tests.
- Participate in the calibration and commissioning for continuous emission monitor system include simatic s7 400 H, HMI panel and SCADA system, dust hunter T100 and Sick s710.

Dates : From Oct. 2011 till Jul. 2013
Employer : East Delta Electricity Production Co.
Project : Damietta Power Plant include six gas turbines type Siemens SGT5-2000E (V94.2) – six HRSG manufactured by Borsig Germany – three Steam Turbines GEC ALSTHOM in the combined cycle and four gas turbines type GE Frame 9E in simple cycle

Job title : Instruments and Control Systems Engineer
Job Description :

- Participate in upgrading for steam turbine Governor to ABB AC800M.
- Maintenance & calibration of transmitters PT, LT, TT, DPT (Rosemount, Yokogawa, Vega, Foxboro, Honeywell.....).
- Maintenance & calibration of steam turbine governor control system, and Bentley Nevada 3500 measuring system (Velocity, Thrust, Vibration, Differential expansion, absolute expansion).
- Supervising all I&C maintenance activities during shutdown and normal operation of the steam turbine and HRSG include pressure transmitters, level transmitters, flow transmitters, LVDT for control valves and bypass valves, pressure switches, level switches, flow switches, pneumatic valves, hydraulic valves, AUMA electric actuator.
- Participate in gas turbine inspection during shutdown.
- Design a new control system for instrument and service air compressors by using Simatic logo.

Dates : From Mar. 2007 till Oct. 2011
Employer : East Delta Electricity Production Co.
Project : Damietta Power Plant include six gas turbines type Siemens SGT5-2000E (V94.2) – six HRSG manufactured by Borsig Germany – three Steam Turbines GEC ALSTHOM in the combined cycle and four gas turbines type GE Frame 9E in simple cycle

Job title : Control Room Operator
Job Description :

- Operating & Monitoring 165 MVA Steam turbine (GEC-ALSTHOM).
- Operating & Monitoring Boiler HRSG 500T/H (BABCOCK-BORSIG).
- Operating & Monitoring 152 MVA Gas turbine units (SIEMENS (V94.2)).
- Operating & Monitoring Plant Auxiliaries (HVAC and ventilation systems, fire fighting systems, air compressors and dryers, UPS systems, emergency diesel generators).
- Perform training and qualification of other operations staff as required to support training and qualification requirements.
- Follow all management approved rules, standards, procedures, governmental requirements, company policies.
- Initiate maintenance work orders as necessary to maintain plant equipment reliability and plant availability.
- Respond to alarms and malfunctions of plant operations and take the necessary corrective measures.

Dates : From May 2007 till Apr. 2008
Employer : Halayeb Katilo for dairy product and juices
Job title : Electrical & Control Engineer
Job Description :

- Design, programming, execute and commission control system for milk receiving area using Siemens Simatic S5 95 U and Sipart DR20.
- Design control system for beverage area S7 200 controller.

Dates : From Oct. 2004 till Mar. 2007
Employer : Egyptian Air Defense
Job title : Computerized System Operation & Maintenance Engineer
Job Description : Maintenance of various types of electronic systems.

- Field of experience :**
- Experienced in the field instruments and control systems procurement activities.
 - Engineering, commissioning and maintenance activities for DCS, PLC, SCADA, Analyzers and Control Loops:
 - DCS: Siemens SPPA T3000 – General Electric GE MARK VIE, EMERSON OVATION and Yokogawa CENTUM VP.
 - Turbine governor:
 - ❖ SPPA R3000 with Siemens gas turbine SGT5-2000E (V94.2), Siemens SGT 6 5000F Gas Turbine and Siemens SSG 6 4000 steam turbine.
 - ❖ GE MARK VIE with GE 9E gas turbine.
 - PLC: Siemens simatic (S7 200, 300, 400, S5 95, 100, LOGO) ABB AC800M, Schneider (premium hot standby, Zelio) and DELTA DVB EH.
 - SCADA: Siemens Wincc – GE simplicity – Schneider vijeo citect.
 - Installation, calibration and Configuration of the field instruments (Emerson Rosemount, ABB, Endress & Hauser, Bentley Nevada, Honeywell, Yokogawa,).
 - Maintenance and calibration of the control valves (Pneumatic, hydraulic, MOV.) of Weir, WOODWORD, ACTREG, Auma and Alfor
 - Commissioning, maintenance and testing of fire extinguishing systems SANCO minimax FMZ4100 and from others.
 - Familiar with flow meters configuring (electromagnetic, Diff. pressure, ultrasonic, turbine, vortex, coriolis) of E+H and Rosemount.
 - Designing, Implementing and Commissioning of new control loops as per site requirements.
 - Strong background in motor defects, soft starters, drives, star/delta starters, VFD, MCC.
 - Printed circuit boards PCB Repairing and Modifying.
 - Technical Support for the instrumentation team.
 - Spares balance investigation and inventory control for all instruments' spare parts.