

Holds a B. Sc. in Electrical Engineering (Computer & Automatic Control) and has over 16 years hands-on experience in Power Plant construction, commissioning, start-up, maintenance and operation.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 06/06/1983
Gender : Male
Marital Status : Married
Residence : Gharbia

EDUCATION

: B. Sc. in Electrical Engineering (Computer & Automatic Control), Tanta University, 2005

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Off-shore training on HRSG maintenance (design, I&C, pressure parts, valves and actuators, MCC and main components) by Ansaldo Caldaie Company in Gallarate – Italy.
- : Off-shore training concerning operation and maintenance pressure transmitters 266 series, temperature transmitters TTF300 and hand held terminal DHH805 by ABB Company in Italy.
- : On-shore training on Mark Vie (ETS) control maintenance by GE Company in Banha – Egypt.
- : On-shore training on H2 generation by Proton Company in Banha – Egypt.
- : On-shore training of steam turbine operation by Alstom Company in Nubaria – Egypt.
- : Basic Operation Training on Steam Turbine by Middle Delta Electricity Production Company in Nubaria – Egypt.
- : HRSG Training course by Middle Delta Electricity Production Company in Nubaria – Egypt.

: Basic operation on gas turbine by Middle Delta Electricity Production Company in Nubaria – Egypt.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Mar. 2019 till Jul. 2021
Employer : GE External (NES Global Talent)
Project : ISCC Waad Alshamal Power Plant, KSA (4 GE GT 7FA.05, 4 HRSG, 1 steam turbine + 50MW solar concentrating plant)
Job title : ICS Commissioning Engineer
Job Description :

- Responsible for complete DCS and BOP Controls Commissioning (MKVle control system).
- Power up energization, controllers setup, Hot loop check with internal and external systems, function check, logic implementation, Installation of workstations, network switches configuration and implement the whole network according to network topology.
- Ensuring the proper implementation of the various control schemes in the DCS for BOP and Electrical Systems.
- Manage and validate software and hardware change to all programmable systems.
- Understand the Project standards and ensure the design meets the requirements.
- Review and follow project design documentation and procedures.
- Modbus RTU serial communication mapping.
- Perform system and plant tuning.
- Monitor construction/completion of the ICS as well as any associated systems to ensure compliance with commissioning expectations.
- Management of updated drawings, redline and As-Built validation.
- Organize controls sub system & plant tests with customer.
- Achieve high customer satisfaction (NPS).
- Manage 3rd party control and safety interfaces with the ICS in conjunction with vendor package engineers.
- Identify and report issues of non-conformity and assist the responsible party.
- Collect Lessons learned.

Dates : From Feb. 2018 till Nov. 2018
Employer : GE External (INP-E EGYPT)
Project : West Damietta Power Plant 750MW (ADD-ON Project (4 HRSG, 1 ST + BOP))
Job title : ICS Commissioning Engineer
Job Description :

- Responsible for complete DCS and BOP Controls Commissioning (MKVle control system).
- Ensuring the proper termination of the cables both in the field side and the control room side as per the cable schedule through continuity checks.
- Checking of the complete loop by feeding the inputs from the field and also the outputs from the control room through loop checking.
- Supervise the Instrument Commissioning Technicians in commissioning various field instruments.

- Ensuring the proper implementation of the various control schemes in the DCS for GT, ST, HRSG, WSC, BOP and Electrical Systems.
- Participate to plant tests: start-up of the plant and support tuning of the control loops.
- Participate to contractual reception tests with customer: adequacy with contract, turnover to customer without defects, follow-up of punch list items.
- Create and modify logic according to site needs.
- Create and modify HMI Screens according to site needs.
- Manage MKVle control systems.

Dates : From Jan. 2018 till Feb. 2018
Employer : Rina
Project : Zohr Onshore Plant – Port Said, Egypt
Job title : Commissioning I&C Supervisor
Job Description :

- Responsible for commissioning for fire & gas devices.
- Do loop checks for gas detector, beacon, flame detectors, and manual call point.

Dates : From Aug. 2017 till Oct. 2017
Employer : SAUDI SERVICES FOR ELECTRO MECHANICAL WORKS CO. (SSEM)
Project : DUBA GREEN ISCCP PROJECT - KSA
 (2 GE GT 7FA.04, 2 vertical HRSG, 1 steam turbine + solar energy)
Job title : Lead I&C Engineer
Job Description :

- Lead a group of engineers and technicians for I&C construction work.
- Co-ordinate between main contractor (CIS) and Subcontractor (SSEM) for missing material, Cable list.
- Follow calibration instruments Activity in site and in lab and help them to solve any problem.
- The main job is to put my hand on serious problems that prevent construction to be completed and commissioning to start, according to schedule that owner need for 2 GT and BOP (Closed cooling, Condensate fuel gas system, fuel gas compressor system, fuel gas treatment system, instrument air system and service air system).
- Do pre-commissioning Phase for 2 GT ASAP.
- All units controlled by Mark Vie.

Dates : From Jun. 2016 till Jul. 2017
Employer : Elsewedy ELECTRIC (PSP)
Project : Beni Suef CCPP (8 GT type SGT5-8000H, 8 vertical HRSG Nem, 4 ST type SGT5-5000), capacity 4800MW
Job title : Senior Commissioning I&C Engineer
Job Description :

- Do commissioning works for skids and all instrumentations and T3000 control system with Siemens commissioning team.
- Working on T3000 logic for function check.
- PSP supplier to Siemens for 3 month.
- Do hot loop check to all transmitters, RTD, Thermocouples, flow meters, Analyzer.
- Do installation, termination and adjustment for vibration detectors.

- Do function check for each system of Gas turbine (lube oil, hydraulic oil, Pneumatic air compressor, turning gear, lift oil, seal oil, H2 system, anti-condensate system, blow off valves, turbine cooling valves, air intake system, gas dryer, flame detector, spark plug and combustion).
- Do all test needed for gas turbine (ELOP test, igniters test, false flame test and over speed test, etc...).
- Troubleshooting all problems in field (transmitters, analyzer, RTD, Thermocouple, control valves, motorize valve, PLC).
- Do Installation for steam turbine instrumentation (HP, IP, LP ...), auxiliaries (condensate pump, condensate polishing pump, vacuum pump, tube ball cleaning, seal oil, lube oil, hydraulic oil, Regeneration polishing plant and cooling tower).
- Supervise construction works like erection of (cable tray, junction box, cable pulling, termination, field device racks). Installing field devices for gas turbine and steam turbine and HRSG.

Dates	:	From Jan. 2016 till May 2016
Employer	:	Middle Delta Electricity Production Company (MDEPCO)
Project	:	Banha Combined Cycle (750MW) Power Station
Job title	:	Senior I&C Engineer
Job Description	:	<ul style="list-style-type: none"> • During the project erection, commissioning and start-up: <ul style="list-style-type: none"> - Receiving material for gas turbine. - Do engineering and design review to all the related documents, drawings, electrical control diagrams and logic circuits. - Follow up installing steps to all equipment. - Approve, inspect and calibrate all the related instruments and equipment to be suitable to the process and as per the contract specifications and written agreements. - Make loop check for all signals between field & controller Mark VIe. - Make function check. - Attending first fire for two gas turbines. - Attending start-up and commissioning for 2 GT and make all tests on both fuel gas and liquid fuel. - Start-up and commissioning for bypass stack hydraulic power unit with vendor Atlantic Industrial Technologies. - Start-up and commissioning for indirect water bath heater with vendor 4Forain. - Start-up and commissioning for gas chromatograph (Rosemount analytical) with vendor Emerson. - Start-up and commissioning for Gas Auxiliary Monitoring Panel "GAMP" and install system one for 3500 monitoring system which has key phasor, proximitors & hazard gas modules, install rack configuration software, adjust gap voltage for proximitor, calibration for hazard gas sensors with vendor Bentley Nevada. - Start-up and commissioning for fire detection and protection system with vendor TOMCO Fire systems, Inc. - Follow up all site construction activities. - Make configuration & loop check for modbus signal between Mark VIe & DCS. • During the maintenance: <ul style="list-style-type: none"> Maintenance activates for Gas Turbines (G.E FA9001) controlled by

Mark VIe including the following:

- Receiving and acceptance of all spare parts instrumentation devices.
- Responsible for check and repair activities of instrumentation cabinets, control panels, PLC cabinets, electronic cards, analyzers, transmitters, switches, thermocouples, RTDs and valves.
- Support for operators for dealing with different control systems.
- Maintenance of the field installed device and troubleshooting for any problem occurred in the field instrumentation.
- Troubleshoot any problem in Mark VIe cabinet, controller configuration.
- Modification in simplicity HMI screens and toolbox software (logic).
- Also I have experience in working on YOKOGAWA DCS (Centum VP) and Symphony Harmony Control System by ABB.

Dates : From Aug. 2015 till Dec. 2015
Employer : [EGYPTROL](#) (main company and my supplier to GE)
Project : Cairo & Upper Egypt Power Plants
Emergency power projects including: 20 GT each one 25MW GE TM2500+ controlled by Woodward MicroNet© Digital Control
Job title : Operation & Maintenance Engineer
Job Description :

- Operation of gas turbine start-up and shutdown.
- Do routine maintenance for gas turbine and auxiliary systems and BOP according to GE procedures.
- Monitor alarms and do troubleshooting according to GE procedures.
- Working on GAP 3 and control Assistant.

Dates : From Sep. 2012 till Jul. 2015
Employer : Middle Delta Electricity Production Company (MDEPCO)
Project : Banha Combined Cycle (750MW) Power Station:
One Module consists of:

- Two General Electric (GE) CTG 250MW type FA9001
- Two Horizontal Ansaldo Caldaie HRSG
- One Ansaldo Energia STG 250MW (HP, IP, LP) turbine
- 220KV GIS switchyard
- Medium and Low Voltage Switchgear

Job title : I&C Engineer
Job Description :

- During the project erection, commissioning and start-up:
 - Receiving material for gas turbine.
 - Do engineering and design review to all the related documents, drawings, electrical control diagrams and logic circuits.
 - Follow up installing steps to all equipment.
 - Approve, inspect and calibrate all the related instruments and equipment to be suitable to the process and as per the contract specifications and written agreements.
 - Make loop check for all signals between field & controller Mark VIe.
 - Make function check.
 - Attending first fire for two gas turbines.
 - Attending start-up and commissioning for 2 GT and make all tests on both fuel gas and liquid fuel.

- Start-up and commissioning for bypass stack hydraulic power unit with vendor Atlantic Industrial Technologies.
 - Start-up and commissioning for indirect water bath heater with vendor 4Forain.
 - Start-up and commissioning for gas chromatograph (Rosemount analytical) with vendor Emerson.
 - Start-up and commissioning for Gas Auxiliary Monitoring Panel "GAMP" and install system one for 3500 monitoring system which has key phasor, proximity & hazard gas modules, install rack configuration software, adjust gap voltage for proximity, calibration for hazard gas sensors with vendor Bentley Nevada.
 - Start-up and commissioning for fire detection and protection system with vendor TOMCO Fire systems, Inc.
 - Follow up all site construction activities.
 - Make configuration & loop check for modbus signal between Mark VIe & DCS.
- During the maintenance:
 - Maintenance activates for Gas Turbines (G.E FA9001) controlled by Mark VIe including the following:
 - Receiving and acceptance of all spare parts instrumentation devices.
 - Responsible for check and repair activities of instrumentation cabinets, control panels, PLC cabinets, electronic cards, analyzers, transmitters, switches, thermocouples, RTDs and valves.
 - Support for operators for dealing with different control systems.
 - Maintenance of the field installed device and troubleshooting for any problem occurred in the field instrumentation.
 - Troubleshoot any problem in Mark VIe cabinet, controller configuration.
 - Modification in simplicity HMI screens and toolbox software (logic).
 - Also I have experience in working on YOKOGAWA DCS (Centum VP) and Symphony Harmony Control System by ABB.

Dates : From Feb. 2010 till Aug. 2012
Employer : Middle Delta Electricity Production Company (MDEPCO)
Project : NUBARIA III Combined Cycle Power Station (2 GT GE type 9FA, 2 HRSG STF, 1 ST Alstom), capacity of 750MW
Job title : I&C Maintenance Engineer
Job Description :

- Troubleshooting, Breakdown, Corrective, Routine and Preventative Maintenance for Combined Cycle Module.
- Troubleshoot any problem in markVIe cabinet, controller Configuration.
- Check controller healthy, diagnostic alarms, ground fault and alarm viewer.
- Modification in simplicity HMI screens and toolbox software (logic).

Dates : From Jan. 2007 till Jan. 2010
Project : NUBARIA I & II Power Station (4 GT Siemens type V94.3A, 4 HRSG Alstom, 2 ST Mitsubishi), capacity of 2x750MW
Job title : Operation Engineer
Job Description :

- Basic Operation of Mitsubishi Steam Turbine (2x250MW).
- Basic Operation of Siemens Gas Turbine (4x250MW) Type V94.3A.

- Basic Operation of horizontal Alstom HRSG.

Dates : From Jan. 2006 till Dec. 2006
Employer : Gargour Technology, Cairo
Job title : Electrical Maintenance Engineer
Job Description : Responsible for maintenance all equipments that can read and print barcode like scanners, printer (zebra, monraque and receipt printer), PDT and scales. Install these equipments to clients.