100134-ICX-14CMS-E-2002
I&C Commissioning, Start-up & Maintenance Engineer

Holds a B. Sc. in Electrical Engineering and a post graduate Diploma in power generating plants. Has over 16 years hands-on experience in instrumentation and control systems of Steam and Combined Cycle Power Plants.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	02/03/1976
Gender	:	Male
Marital Status	:	Married
Residence	:	Damanhour

EDUCATION

	:	B. Sc. in Electrical Engineering, Tanta University, 2002
	:	Post Graduate Diploma in Electrical Power Station

LANGUAGES

Arabic	:	Native Language
English	:	Very Good

COMPUTER SKILLS

	:	Windows, MS Office (Word, Excel), Internet
	:	Documentum

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From Sep. 2018 till now
Employer	:	BP
Project	:	West Nile Delta Gas Development Project
Job title	:	I&C Commissioning, Start-up & Maintenance Engineer
Job Description	:	Advanced knowledge in Commissioning, Calibration, Testing, Installation and Maintenance for different field instrumentation.

Dates	:	From Apr. 2018 till Aug. 2018
Employer	:	Siemens Power and Gas Division Energy Solution
Project	:	New Capital Combined Cycle Power Plant Project (4800MW)
Job title	:	I&C Commissioning, Start-up & Maintenance Engineer

Job Description :

- Very good knowledge in Control System SPPA-T3000 Siemens.
- Creating new logic, modification, simulation of Siemens Control system SPPA-T3000 and respective Commissioning.
- SPPA-T3000 Engineering, Maintenance & Service.
- System: hardware and software architecture, redundancy and peripherals.
- 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, and dynamic function diagram.
- Commissioning: point view, online change of parameters, forcing ports.
- Engineering examples (practical exercises): HW-proxies, I/Os, logic, motor control, actuator, protection, closed loop controller, sup-group controller, basic and advanced graphics, display.
- Calibration, Installation, Instrumentation piping of all Field Instruments such as Gauges, Thermocouples, RTD's, Flow meters, Solenoids, Transmitters, Fire detectors, Flame detectors, Vibration and Switches etc and Controllers.
- Pre-Commissioning Activities like Continuity check, Loop Check, Leakage Tests, Functional Check of the PCC and Circuit Breakers with the Control System.
- Vendor Drawing Review; Inspection of the Field Instruments Detailed Engineering Activities for Instruments like I/O lists, Loop Drawings & Interconnection Drawings.

Dates : From Jan. 2018 till Mar. 2018

Employer : GE Energy Products

Project : West Damietta 750MW Combined Cycle Fast Track Project

Job title : Lead I&C Commissioning, Start-up & Maintenance Engineer

Job Description :

- Mark VIe Control System.
- Install of Control System GE-MarkVIe Control system and respective Commissioning.
- Calibration, Installation, Instrumentation piping of all Field Instruments such as Gauges, Thermocouples, RTD's, Flow meters, Solenoids, Transmitters, Fire detectors, Flame Scanners, Vibration and Limit Switches etc and Controllers.
- Pre-Commissioning Activities like Continuity check, Loop Check, Pneumatic Leakage Tests; Functional Check of the MCC and Circuit Breakers with the Control System.
- Vendor Drawing Review; Inspection of the Field Instruments Detailed Engineering Activities for Instruments like I/O lists, Loop Drawings & Interconnection Drawings.
- GT Start-up, Synchronization and Troubleshooting by analyzing the Trends using GE-Toolbox. In CIMPLICITY (HMI); Assistance of Control System Logic, PLC Ladder, P&ID's etc.
- Project Documentation reports & preparation of As-Built drawings.

Dates : From Oct. 2017 till Dec. 2017

Employer : TECHINT Engineering & Construction

Project	:	South Helwan Thermal Supercritical Steam Turbine Power Plant (3x650MW)
Job title	:	I&C Commissioning, Start-up & Maintenance Engineer
Job Description	:	• Advanced knowledge in Commissioning, Calibration, Testing, Installation and Maintenance for different field instrumentation. • Calibration and Loop Check for transmitters (pressure, level, temperature and flow). • Calibration and loop test for RTD and thermocouples. • Calibration and Loop Check for switches (pressure, differential pressure, level, temperature and flow switch). • Calibration and Loop Check for valves (MOV, control valves & etc…). • Commissioning, function test and startup works for all equipment and instruments. • Following troubles and making statistics to evaluate cautions of these troubles.
Dates	:	From Nov. 2014 till Aug. 2017
Employer	:	Hitachi Plant Technologies
Project	:	Banha Power Plant (750MW Combined Cycle), GE 9FA Gas Turbine Mark VI control system
Job title	:	I&C Commissioning, Start-up & Maintenance Engineer
Job Description	:	Good experience in Commissioning, Calibration, Test, Installation and Maintenance for different field instrumentation.
Dates	:	From Aug. 2013 till Sep. 2014
Employer	:	EGYPTROL – Commissioning Subcontractor for SAMSUNG C&T
Project	:	Qurayyah Independent Power Project – KSA (4000MW Combined Cycle): • Twelve Siemens SGT6-PAC 5000F Gas Turbine Generating Units (GTGs 229MW) • Twelve Heat Recovery Steam Generators (HRSGs) • Six Siemens SST6-4000 Steam Turbine Generators (STGs 226MW) • SPPA T-3000 control system
Job title	:	Lead I&C Commissioning, Start-up & Maintenance Engineer
Job Description	:	• Very good experience in control system SPPA-T3000 Siemens. • Good experience in Commissioning, Calibration, Test, Installation and Maintenance for different field instrumentation.
Dates	:	From Jan. 2012 till Aug. 2013
Project	:	Nubaria Combined Cycle Power Plant 1500MW (2x750MW)
Job title	:	I&C Maintenance Engineer
Dates	:	From Jul. 2011 till Dec. 2011
Employer	:	ANSALDO CALDAIE S.P.A.
Project	:	Abu Qir Thermal Power Plant (2x650MW)
Job title	:	Lead I&C Commissioning & Maintenance Engineer
Job Description	:	Good experience in Ansaldo Boiler in the following systems: • Burner commissioning and start-up.

- FDF commissioning and start-up.
- GRF commissioning and start-up.
- Lube Oil Skid commissioning and start-up.
- Air Heater commissioning and start-up.
- All transmitter commissioning and start-up.
- All valves commissioning and start-up.

Dates : From Jul. 2010 till Jun. 2011
Employer : Kuwait Oil Company
Project : Maintenance of Single Point Mooring System (SPM), CALM Buoy type
Job title : I&C Maintenance Engineer
Job Description : Responsible for:

- PLC (HIMA system).
- Hydraulics system.
- Calibration all pressure transmitter, level transmitter, temperature transmitter, fog detector, load pin, temperature gauges and all valves.

Dates : From Dec. 2009 till Jun. 2010
Employer : EGYPTROL (Commissioning Subcontractor for BoP contractor)
Project : El-Atf Combined Cycle Power Plant 750MW (2x2x1):
One module consists of:

- Two Mitsubishi CTG 250MW
- Two NEM HRSG
- One Ansaldo STG 250MW (HP, IP, LP)

Job title : I&C Commissioning, Start-up & Maintenance Engineer
Job Description :

- Responsible for all field instrumentation:
  - Calibration at EGYPTROL field calibration lab and issue certification.
  - Field preparation to put instruments in successful operation.
  - Instrument Loop testing.
  - Troubleshooting of loops and instruments.
  - Support operation team.
- Good experience in calibration, test, installation and maintenance for different field instruments in the following systems:
  - Condensate water system.
  - Potable water system.
  - Circulation water pumps.
  - Service water system.
  - Closed cooling water system.
  - Feed water system.
  - Fuel oil system.
  - Fire alarm system.
  - Waste water system.
  - Main steam system.

Dates : From Jul. 2008 till Nov. 2009
Employer : Middle Delta Electricity Production Company

Project : Nubaria Combined Cycle (3x750MW) Power Plant:

- Four Siemens gas turbines 4x250MW
- Four ALSTOM heat recovery steam boiler (HRSG)
- Two MITSUBISHI steam turbines 2x250MW
- Two GE gas turbines 2x250MW
- Two STF heat recovery steam boiler (HRSG)
- One ALSTOM steam turbine 1x250MW

Job title : I&C Engineer

Job Description :

- I&C Engineer in Siemens Gas Turbine V94.3A:
  - Very good experience in Siemens Gas Turbine V94.3A in the following Systems:
    - Fuel gas commissioning and start-up.
    - Fuel oil commissioning and start-up.
    - Maintenance and fault recovery for Automation control system (TELEPERM XP AS 620B) Software and its hardware Components Such as (power supply cards, CPU, interface modules and input/output cards).
    - Maintenance and fault recovery for Fail safe control system (AG 95F) software and its hardware components such as (power supply cards, CPU, interface modules and input/output cards).
    - Maintenance and fault recovery for GOVERNER system (AS 620T) software and its hardware components such as (power supply cards, CPU, interface modules and input/output cards).
    - Major and minor inspection for the gas turbine.
    - Hot gas path inspection.
    - Gas turbine tuning and optimization.
    - Troubleshooting of the control system problems.
    - Calibration of the field devices transmitters, switches, gages ……etc.
    - Calibration of all field instruments and testing, installation of all turbine supervisory instruments (TSI) (Vibration probes and proximity transducers, Speed sensors …).
    - Fault analysis using the OM 650 display facilities.
    - Tools for system analysis, administration, event managing of OM 650.
    - 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 firefighting system.
- I&C Construction, Commissioning & Start-up Engineer in GE 9FA Gas Turbine:
  - Mark VI control system (Toolbox & Cimplicity).
  - Device summary and piping schematics.
  - Cimplicity and toolbox trends.
  - TMR Philosophy.
  - Mark VI panel layout.

- Mark VI modules overview.
- Toolbox hardware and I/O definition.
- Toolbox options (I/O reports, hardware signals tracing, replacing I/O cards & UCVX controller card, go ON/OFF line, major/minor/equal differences, Saving, log reports, validate, build, download, alarm list, constant list, Finder, forcing signals, changing control constants, alarm tracing, diagnostic Alarms).
- Software introduction (functions / modules / tasks / pins, using sequences, Macros).
- Working as I&C Owner during the commissioning and start-up of GE gas turbine.
- Making loop check and sequence check of all Mark VI signals.
- Working as I&C Engineer during the warranty inspection of two GE gas turbines.
- Trouble shooting of GE gas turbine alarms and failures.
- Hazard Gas System.
- Calibration of all field instruments and testing, installation of all turbine supervisory instruments (TSI) (Vibration probes and proximity transducer).

Dates : From Nov. 2002 till Jun. 2008

Employer : Middle Delta Electricity Production Company

Project : Damanhour 325MW Power Plant

Job title : I&C Engineer Commissioning & Maintenance Engineer

Job Description : Responsible for instrumentation maintenance, one module consists of:

- Ansaldo steam turbine (325MW).
- Ansaldo Boiler, DCS Baily Infi 90.

Field of experience :

- Very good experience in control system SPPA-T3000 Siemens.
- Very good experience in many control systems such as DCS Baily Infi 90 BMS, DCS, TSI, EHC and PLC system.
- Good experience in calibration, testing, installation, and maintenance for different field instrumentation in the following systems:
  - Ansaldo Steam Turbine:
    - Control Valves (Servo, LVDT, Pressure Transducer).
    - Stop / Speed Ratio Valves (Servo, LVDT).
    - Pressure Regulator Valves.
    - Solenoid Valves and Pressure Switches.
    - Hydraulic system.
    - On / Off Motorized Valves Biffy (Italy).
    - On / Off Pneumatic Valves Fisher (USA).
    - Control Pneumatic Valves Fisher (USA).
    - Pressure – Differential Pressure – Level – Flow Transmitters (Rosemount).
    - Vibration sensors, differential expansion, absolute expansion, thrust bearing wear detectors, speed sensors and rotor axial position instruments.
    - Control Valves: STI (Italy).
    - Pressure and temperature controllers.
    - Circulation water pump, service water pump and closed cooling water pump.

- Boiler:
  - Pressure – Differential Pressure – Level – Flow Switches.
  - Pressure – Differential Pressure – Level – Flow Transmitters (Baily).
  - Thermocouples – R.T.D.
  - On / Off Valves (motorized rotork).
  - On / Off Valves (motorized AUMA).
  - Control Valves (motorized AUMA matic).