

100134-ICX-14CMS-E-2002
T3000 Commissioning & Start-up Engineer

Holds a B. Sc. in Electrical Engineering and a post graduate Diploma in power generating plants. Has about 22 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 Jun. 2022 till Oct. 2023
Employer : Siemens Energy Global
Project : Ptolemais Unit V 660MW Power Plant in Greece
Job title : T3000 Commissioning & Start-up Engineer
Job Description :

- Advanced knowledge in Commissioning, Calibration, Testing, Installation and Maintenance for different field instrumentation and all instruments.
- Very good knowledge in Control System SPPA-T3000 Siemens.
- Creating new logic, modification, simulation of Siemens Control system SPPA-T3000 and respective Commissioning.
- Commissioning for Governor and Protection Controllers.
- Engineering and Commissioning Trouble shooting of I&C System.
- Loop check and function testing for all field instrument and valves.

Dates : From May 2021 till Apr. 2022
Employer : Doosan Heavy Industries & Construction
Project : Assiut Supercritical Power Station 1x650MW
Job title : T3000 Steam Turbine Commissioning Engineer
Job Description :

- Advanced knowledge in Commissioning, Calibration, Testing, Installation and Maintenance for different field instrumentation and all instruments.
- Very good knowledge in Control System SPPA-T3000 Siemens.
- Creating new logic, modification, simulation of Siemens Control system SPPA-T3000 and respective Commissioning.
- Commissioning for Governor and Protection Controllers.
- Engineering and Commissioning Trouble shooting of I&C System.
- Loop check and function testing for all field instrument and valves.

Dates : From Oct. 2018 till Apr. 2021
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 and all instruments Fieldbus (FF).
- 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.
- Calibration of O2 analyzer, CO analyzer.
- Vibration sensors (displacement using tk-3 including thrust bearings).
- Intelligent valve controller (Metso) & Imtex valve.
- Bentley Nevada System Vibration.
- Calibration Stack dampers.
- Using HART Communicator (HART or Foundation Fieldbus).
- Emerson 375 and 475 field Communicators.
- Emerson T-REX Field Communicator.
- Professional diagnosing and troubleshooting of any problems.

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	: <ul style="list-style-type: none"> • 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](http://www.egyptrol.com) (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, gagesetc.
 - 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 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).