

100973-CSX-1CMSix-E-2001
I&C SPPA-T3000 Admin & Commissioning Engineer TFA

Holds a B. Sc. in Communication & Electronics Engineering and has over 21 years hands-on experience in start-up and commissioning, instrumentation and control system calibration, testing, installation and maintenance for different field instrumentation, analyzers.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 08/12/1976
Gender : Male
Marital Status : Married
Residence : Giza, Cairo

EDUCATION

: B. Sc. in Communication & Electronics Engineering, Helwan University, 2001

LANGUAGES

Arabic : Native Language
English : Fluent
French : Fair

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point, Access), Internet
: Primavera P6
: Visual Basic programming
: AutoCAD 2011
: Oracle database
: MS Project

TRAINING COURSES AND CERTIFICATIONS

: Course in T3000 MAINTENACE AND ADMINISTRATION, GERMANY - KARLSRUHE (JUL. 2016).
: OPERATION AND MAINTENANCE OF POWER STATION - IN EL-KUREIMAT POWER STATION TRAINING CENTER.
: Course in Safety OSHA in El-Kureimat Training Center (Oct. 2012).
: Course in operation and maintenance of combined cycle plants in Abu Qir Training Center.
: Course in control system in El-Kureimat Training Center.

- : Course in DCS control system ALSP P320.
- : Course in operation of steam turbine.
- : Course in PLS S7 SIEMENS in El-Kureimat Training Center.
- : Course in PLS S7 400 SIEMENS in MAS Automation.
- : Course in Allen Bradley RS logix 5000.
- : Course in Network CCNA.
- : Course in PRIMAVERA project management.
- : Course in oracle database.
- : Training course about basic and site-specific lessons about operation and maintenance of Power Station, El-Kureimat Training Center.
- : PLC SIEMENS STEP 7-300 SEMATIC – ALLEN BRADLEY CONROL LOGIC 5000 course by EL-SWEEDY Company.

CHRONOLOGICAL EXPERIENCE RECORD

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|------------------------|---|---|
| Dates | : | From Dec. 2024 till now |
| Employer | : | Siemens Energy |
| Project | : | REDSTONE Power Plant SST-700 / SST-900 120MW Steam Turbine |
| Job title | : | I&C SPPA-T3000 Admin & Commissioning Engineer TFA |
| Job Description | : | <ul style="list-style-type: none"> • T3000 TFA Commissioning Control Engineer. • Freelancer SPPA T3000 Administrator. • SIEMENS Industrial steam turbines hot commissioning experience (SST-600, SST-800, SST-500, SST-700 and SST-900). • SPPA T-3000 Administrator with good background working on Siemens Automation Systems. • Setting up of SPPA-T3000 system in line with the commissioning procedure and Commissioning of SPPA-T3000 components. <ul style="list-style-type: none"> - SPPA-T3000 Application servers, thin clients, and printers. - SPPA-T3000 Timeserver, Technology Server, Terminal Servers. - SPPA-T3000 Network configuration, firewall setup, router configuration. • Installing SPPA-T3000 control system components such as (panels, Automation servers, Application servers, Swap out servers and Thin clients). • Implementation of Interconnection drawings & logics. This involves understanding the documentation and implementing them with standard Siemens DCS Tools like SPPA T3000 for Software. • I&C cabinets, automation processors (S7-400). • SPPA-T3000 Bus systems for communication (Profi-Bus) between I&C Components. |
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| Dates | : | From Jun. 2018 till Jun. 2023 |
| Employer | : | Upper Egypt Electricity Production Co. (UEEPC) |
| Job Description | : | Instrumentation work for: <ul style="list-style-type: none"> • EL-KUREIMAT II Power Plant Combined Cycle 2 modules 2x750MW (2 GAS TURBINES SIEMENS V94.3A AND 2 Steam TURBINES HITACHI / 2nd module is GE gas turbine STG ALSTOM AND BOILER CMI). • INSTRUMENT LEAD MAINTENANCE ENGINEER for SIEMENS Gas |

- turbine V94.3A - T3000 CONTROL SYSTEM.
- STG1 MARK6.
- STG2 ALSPA P320.
- BOILER CONTROL SYSTEM OVATION EMERSON.

Dates : From Nov. 2016 till Jun. 2018

Project : Beni Suef CCPP 4800MW

Job title : I&C Maintenance Engineer

Job Description : Complete I&C work for ALL 8 GAS TURBINES model SGT 5-8000 H and 4 steam turbines model SST 5-5000 and for the 8 Boiler NEM:

- GT Control / Protection.
- GT Humming Measurement.
- Gt field instrument and control valve.
- STG field instrument and control valve.
- STG BOP I/O Remote panels.
- NEM HRSG CONTROL VALVES AND INSTRUMENTAION AND BYPASS.
- I&C maintenance activities in water steam cycle, BOP and HRSG with DCS SPPA-T3000 loop check for field instrument like sensors, transmitters, control valves and switches.
- Commissioning of motorized valves (MOV's) and expert in repairing & trouble shooting of AUMA Control valve.
- Complete I&C Commissioning for for 8 NEM Boiler and BOP and Auxiliary IN cold Commissioning and in hot Commissioning.
- Check address/configuration of ET200 stations in control cabinets and the entire network (profibus, industrial Ethernet, fiber optic...) linking ET200 stations together to automation processor.
- Verifying and editing control software programs and hardware changes in local control panels (Black Box).
- Work in HP/IP bypass valve.
- Work in diverter damper system.
- Check all cabinet arrangement and cabinets wiring for boiler cabinets and Fail Saif Cabinet.
- Prepare as built Drawing and protocols.
- Make logic modification if required.
- Work in troubleshooting through normal operation in block 10 to block 40.
- Work in T3000 LOGIC MODIFICATION AND LOOP PROGRAMMING AND TESTING.

Dates : From Nov. 2015 till Nov. 2016

Employer : Upper Egypt Electricity Production Co. (UEEPC)

Project : El-Kureimat Power Station Combined Cycle III

Job title : Instrument Lead Maintenance Engineer

Job Description : Work in Siemens Gas Turbine V94.3A in the following:

- UPDATE THE CONTROL SYSTEM from (TELEPERM XP AS620) TO SPPA-T3000 Control system.
- Commissioning work for:
 - Fuel gas commissioning and start-up.
 - Fuel oil commissioning and start up.

- Gas turbine field instrument.
- Gt instrumentation surge, speed sensor, vibration, temperature.
- Troubleshooting of the control system problems.
- Calibration of the field devices (transmitters, switches, gagesetc.).
- 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 fire-fighting system.
- Perform the routine maintenance of the system Components.
- Air compressor as Atlas Copco and BOOGy.
- HYDAC skid (hydraulic skid used for diverter damper system).

Dates : From Apr. 2015 till Nov. 2015

Employer : ARABIAN BEMCO

Projects :

- PP10 Power Planet Simple cycle, 40th Gas Turbine GE Frame 7EA (A1, A2, B1, B2 and C1) BLOCKS – KSA
- PP12 Combine Cycle Power Planet 8th gas turbine GE frame 7FA05 – KSA

Job title : I&C Engineer

Job Description :

- INSTALL for all I&C equipment, devices, Cabinet and panels for turbines.
- Install all support for transmitter and junction box.
- Install all instrument according to hookup drawing.
- Check for all I&C equipment RTD-VIBRATION for BOP feed wtr pump - condensate pump - cooling pump, testing for all valves (control, motorize, pneumatic and hydraulic valves).
- Install turbine supervisory instrument (BENTLY 3500) PNL.
- GT control system modification for combined cycle.
- Following and review all testing & commissioning procedures as per contract and drawing.

Dates : From Nov. 2013 till Nov. 2014

Employer : Samsung C&T Engineering & Construction Group

Project : Qurayyah Independent Power Project (4000MW Combined Cycle) – KSA:

- Twelve (12) Siemens SGT6-PAC 5000F Gas Turbine Generating Units (GTGs 229MW).
- Twelve (12) Heat Recovery Steam Generators (HRSGs).
- Six (6) Siemens SST6-4000 Steam Turbine Generators (STGs 226MW).
- SPPA T-3000 control system.

Job Description :

- Good experience in Commissioning, Calibration, Test, Installation, and Maintenance for different field instrumentation.
- Commissioning work for all I&C equipment, devices, wiring and panels for turbines field instrumentation, analyzers.
- Follow the Calibration and loop check for all field instruments.
- Wiring cold loop and hot loop checks for (Turbine control panel).
- INSTRUMENTATION AND CONTROL SYSTEM Calibration, Testing, Installation, and Maintenance for different.

- Carry out all Commissioning activities as per SAMSUNG/SIEMENS recommendation.
- Assist plant Commissioning & start-up staff on daily basis to achieve the optimum operation conditions for the plant.

Dates : From Jan. 2013 till Nov. 2013
Employer : [EGYPTROL](http://www.egyptrol.com), Commissioning Subcontractor for ANSALDO ENERGIA
Project : 6th October Power Station (600MW)
Job title : I&C Commissioning Engineer
Job Description :

- Preparing the required commissioning document.
- Executing the cold and hot commissioning.
- Reporting to the Manager.
- Managing and scheduling his staffing and attend the meeting to follow all the site progress.

Dates : From Aug. 2012 till Dec. 2012
Employer : Upper Egypt Electricity Production Co. (UEEPC)
Project : El-Kureimat Power Station Combined Cycle III
Job title : Senior Instrument Maintenance Engineer
Job Description :

- ALSTOM (ALSPA P320) Turbine Generator Control System (TGC) V2+. System Setup and Configuration, interfacing between the TGC System and the Overall DCS and Other Control Systems.
- Turbine Supervisory Instruments (TSI) included Bearing Vibration with Bentley.
- Valves, IP Turbine Combined Valves and LP Stop, Control Valves).
- Nevada 3500 Module, Speed Measurements, ABS Expansion, Differential.
- Bentley Nevada Vibration Monitoring System Setup and Commissioning.
- Lubrication Oil System and Jacking Oil System.
- Steam Seal System for the Steam Turbine.
- Drain System for the Steam Turbine.
- Condenser Evacuation System (Vacuum System for the Main Condenser).
- Water Box Evacuation System (Priming Water Box).
- Circulating Water System including Chlorine Analyzer.
- HP Bypass System and LP Bypass System.
- Tube Cleaning System for the Main Condenser.
- Debris Filter System for the Main Condenser.

Dates : From Mar. 2012 till Aug. 2012
Employer : [EGYPTROL](http://www.egyptrol.com), Commissioning Subcontractor for ANSALDO ENERGIA
Project : 6th October Power Station (600MW)
Job title : Instrumentation Engineer
Job Description :

- Work on ABB control system symphony harmony plus commissioning and test the I/O signal from field to control system.
- Test all field instrument pressure, flow, level, temperature transmitter and switches gas (Rosemount – Yokogawa – Dresser) flow meter, Lvtd of hydraulic actuator, CEMS analyzers and prepare for startup by

calibration and loop check to control system.

- Work on different control valve and hydraulic valve motorized valves like Auma, fisher, Flowserve and adjust its limits.
- Work on flow computer VISCOM.
- Make commissioning work for pulse jet system BOJOROCCHI.
- Vibration SYSTEM (BENTLEY NEVADA 3500 MONITORING SYSTEM).
- Check all vibration probe of Bentley Nevada system and adjust the range of the transmitter.
- Familiar with international standards and codes for installation and testing.
- Good reading to Hook up drawing and P&I and isometric drawing and instruction manual.
- Inspection of control loops for Pre-commissioning checkout.
- Always referring and thorough understanding of approved documents for implementation.
- Checkout for As-Built and mark out discrepancies.
- Preparation of punch list and outstanding work list for follow up for implementation.
- Review before starting the work how to save the work and human by follow all safety.
- Instruction and be sure my stuff in safe area.

Dates : From Mar. 2011 till Mar. 2012
Project : El-Kureimat Power Station Combined Cycle III
Job title : Senior Instrument Maintenance Engineer
Job Description :

- ALSTOM (ALSPA P320) Turbine Generator Control System (TGC) V2+. System Setup and Configuration, interfacing between the TGC System and the Overall DCS and Other Control Systems.
- Turbine Supervisory Instruments (TSI) included Bearing Vibration with Bentley.
- Valves, IP Turbine Combined Valves and LP Stop, Control Valves).
- Nevada 3500 Module, Speed Measurements, ABS Expansion, Differential.
- Bentley Nevada Vibration Monitoring System Setup and Commissioning.
- Lubrication Oil System and Jacking Oil System.
- Steam Seal System for the Steam Turbine.
- Drain System for the Steam Turbine.
- Condenser Evacuation System (Vacuum System for the Main Condenser).
- Water Box Evacuation System (Priming Water Box).
- Circulating Water System including Chlorine Analyzer.
- HP Bypass System and LP Bypass System.
- Tube Cleaning System for the Main Condenser.
- Debris Filter System for the Main Condenser.

Dates : From Jun. 2009 till Mar. 2011
Employer : INITEC ENERGIA
Project : El-Kureimat Power Station Combined Cycle III (2x750MW)
Job title : Installation & Commissioning Instrumentation Engineer

Job Description	:	• Install the instruments and prepare the fittings according to P&D and Hook up drawing. • EXTENSIVE KNOWLEDGE FOR DCS TECHNOLOGIES AS ALSTOM AND GE MARK VI. • PLC'S as Siemens & Allen Bradley. • LOOP CHECK & FUNCTION TEST FOR BOP OF THE POWER PLANT SYSTEMS. • TROUBLESHOOTING HARDWARE INSTRUMENTATION AND SOFTWARE. • CALIBRATION ALL FIELED INSTRUMENTS (PRESSURE, FLOW, LEVEL, TRANSMETERS, SMART TRANSMITTERS & SWITCHES). • PENUMATIC AND HYDROLIC CONTROL VALVES. • MOV (ROTORK, AUMA, LIMIT TOURQUE...). • VIBRATION SYSTEMS AS (BENTLEY NEVADA 3500 MONITORING SYSTEM). • Instrumentation work for MOTOR DRIVEN PUMPS AS (KSB, ITUR, FLOWSERVE) for: IN THE BALANCE OF PLANT SYSTEMS: CONDENSATE SYSTEM - HP/LP FEED WATER SYSTEM - CIRCULATING WATER SYSTEM - WASTE WATER & CHEMICAL WASTE SYSTEM. • FIRE FIGHTING SYSTEM. • Make Trends and Historian Curves to Check the plant parameter and performance. • Help and support the operators to solve their problems to achieve better efficiency and operation of the plant. • Follow the Plant in different phases from construction until reliability and normal operation. • Arrange lists of the spare parts needed.
Dates	:	From Jan. 2008 till Jun. 2009
Employer	:	KAHROMIKA Co.
Project	:	El-Kureimat Power Station Combined Cycle III (2x750MW)
Job title	:	Instrument Construction Engineer
Job Description	:	• Install all local junction box related to field instrument. • Install conduit and cable tray. • Follow cable pulling and cable termination according cable and termination list. • Install the instruments and prepare the fittings according to P&D and Hook up drawing. • Erection for instrumentation (flow transmitter, pressure transmitter, level transmitter, temperature element, analyzers, switches). • Design the location of the instrument according to the field area. • Install vibration probe (Bentley Nevada system) and adjust it's rang to the control system. • Install and test the control valve (flow serve-fisher) and motorized valve. Auma and test its signal and feedback to control system and also Rotork intelligent valve. • Install all instruments on the big pump condensate – feed pump – circulating pump. • Install all instruments related to Steam Turbine Auxiliary: lube oil and gland steam and Vacuum system (Nash), Debris filter and tube cleaning

system (Technos).

Dates : From 2007 till 2008
Employer : ADPI Consultant
Project : Benghazi International Airport Development – LIBYA
Job title : Control System Engineer
Job Description :

- Control for Site Engineer and all Supervisors and Foremen.
- Review for all activity to be in schedule date.
- Determine priority for activity.
- Contact with contractor and owner.
- Installation of electrical equipment and panel.
- Installation of low current system fire alarm, sound system, paging system, network system.
- Check all electrical material and all fitting and cable tray and conduit and cables and its accessories.
- Make meggering test and loop check and function check test for the motor and valves.
- Make continuity test and fat test for cable.

Dates : From 2003 till 2007
Employer : Upper Egypt Electricity Production Co. (UEEPC)
Project : El-Kureimat II Power Plant Combined Cycle 750MW
Job title : Instrument Maintenance Engineer
Job Description :

- 2 BOILER INSTRUMENTATION WORK WITH DCS ovation 3.0.4 with OCR 161 Controllers (EMERSON CONTROL SYSTEM).
- CONTROL SYSTEM OVATION EMERSON.
- Maintenance activities on DCS system EMERSON OVATION including:
 - BOILER CONTROL SYSTEM.
 - Temperature control valve Drum level control and steam pressure control - by pass pressure control.
 - SERVICE AND INSTRUMENTS AIR COMPRESSORS.
- CALIBRATION ALL FIELD INSTRUMENTS (PRESSURE & FLOW & LEVEL & VACUUM TRANSMETERS & SMART TRANSMITTERS & SWITCHES AND ALL CONTROL ROOM INDICATORS).

Dates : From 2001 till 2003
Employer : Egyptian Army
Job title : Maintenance Engineer
Job Description : Maintenance activity for Electrical equipment and panel.

Field of experience :

- Extensive international experience in project in Combined Cycle Power Plant as instrument and commissioning, more than 21 years experience in power plants.
- Work on control systems:
 - T3000 SIEMENS CONTROL SYSTEM.
 - MARK IVe.
 - ALSPA P320.
 - EMERSON OVATION.

- ABB SYMPHONY HARMONY.