

100973-ICX-CMOS-E-2001
Instrument Lead Maintenance Engineer

Holds a B. Sc. in Communication & Electronics Engineering and has over 16 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 MAINTENANCE 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

- Dates** : From Jun. 2018 till now
- Employer** : Upper Egypt Electricity Production Co. (UEEPC)
- Job Description** :
- Instrumentation and Commissioning work for EL-KUREIMAT III Power Plant combined cycle 2 modules 2x750MW AND 2 GAS TURBINES SIEMENS V94.3A AND 2 GAS TURBINES GE 9FA WITH 2 Steam TURBINES HITACHI AND ALSTOM.
 - INSTRUMENT LEAD MAINTENANCE ENGINEER for SIEMENS Gas turbine V94.3A T3000 CONTROL SYSTEM.
 - 2 BOILER INSTRUMENTATION WORK WITH DCS ALSPA P320 CONTROL SYSTEM.
 - CONTROL SYSTEM OVATION EMERSON.
 - Mark VIE CONTROL SYSTEM.

- Dates** : From Nov. 2016 till Jun. 2018
- Project** : Beni Suef CCPP 4800MW
- Job title** : I&C Commissioning Engineer
- Job Description** :
- Complete I&C Commissioning 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.
 - I&C commissioning 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 Testing & Commissioning Engineer

Job Description :

- Check for all I&C equipment, devices, wiring and panels for turbines.
- Follow the Calibration and loop check for all field instruments.
- Wiring cold loop and hot loop checks for (TCP).
- All tests for mark vie control system (logic test, signal test).
- Check for all I&C equipment for BOP (WTP, ACP, etc.).
- Testing for all valves (control, motorize, pneumatic and hydraulic valves).

- Testing of turbine supervisory instrument (BENTLEY 3500).
- 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, Lvt'd 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 VISCUM.
- Make commissioning work for pulse jet system BOLOROCCHI.
- Vibration SYSTEM (BENTLEY NEVADA 3500 MONITORING SYSTEM).
- Check all vibration probe of Bentley Nevada system and adjust the rang 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 : Work in Siemens Gas Turbine V94.3A in the following:

- UPDATE THE CONTROL SYSTEM from (TELEPERM XP AS620).
- Maintenance activities on DCS system EMERSON OVATION including:
 - BOILER CONTROL SYSTEM.
 - Temperature control valve Drum level control and steam pressure control - bypass 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 16 years experience in power plants.
- Work on control systems:
 - T3000 SIEMENS CONTROL SYSTEM.
 - MARK IVe.
 - ALSPA P320.
 - EMERSON OVATION.
 - ABB SYMPHONY HARMONY.