

107066-ICX-1CDMOS-E-2010

I&C Maintenance Engineer

Holds a B. Sc. in Communications & Electronics Engineering and has about 9 years hands-on experience working in Automations Control Systems in Power Generation Plants Boilers and Turbines in addition to its Fuel and Gas field, Auxiliaries, Demi, Waste Substations and Fire Alarm/Fighting.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 08/02/1989
Gender : Male
Residence : Damanhour

EDUCATION

: B. Sc. in Communications & Electronics Engineering, Alexandria Higher Institute of Engineering and Technology (AIET), 2010

LANGUAGES

Arabic : Native Language
English : Very Good
French : Basics

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Access, Power Point), Internet

TRAINING COURSES AND CERTIFICATIONS

: CCNA (Cisco Certified Network Associate) (Oct. 2010), New Horizons Training Centre, Alexandria.
: Matlab 7 (Matrix Laboratory 7) (Programming) (Jul. 2008), Jelecom Centre, Alexandria.
: Simulink (Simulink Based Design) (Systems Simulator) (Jan. 2010), ALFA Centre, Alexandria.
: ICDL (International Computer Driving License) (Jul. 2010), AIET Training Center, Alexandria.
: PLC (Programmable Logic Controllers) (Simatic s7 series 400 Basis) (Jun. 2015), WDEPCo Training Centre, Alexandria.
: English: Result level test is level {E} (From A to G), according to Cambridge University courses (Level (E) in progress), WDEPCo Training Centre, Alexandria.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Dec. 2010 till now
- Employer** : West Delta Electricity Production Company (WDEPCo)
- Project** : Damanhour Power Plant (1x325MW Steam Turbine):
- The main Boiler: Babcock Wilcox (1050 ton/hr- 175 bar- 540 °C).
 - The Turbine and Generator: Ansaldo Energia 325MW.
 - The Main Control System: DCS ABB Infi90/ Symphony Harmony.
- Job title** : I&C Maintenance Engineer
- Job Description** :
- Maintenance Experience:
 - Very good experience and skills in instrumentation and control field and aware with the concepts and steps of working, and how to and achieve the objectives of this field in general, especially in the following systems and not limited.
 - Reviewing P&ID based on instrumentation, control requirements and packing systems design document, drawings and logic diagrams.
 - Logic and Control System Experience:
 - Very good experience in control logic ABB Composer 5.1 as EWS. The availability for create design and modified requirements the CLDs using its functions codes and tracing faults, diagnostic check and troubleshooting.
 - Excellent in drawing graphics on HMI (ABB PGP 4.1) and linked configuration with the logic composer database.
 - Very Good experience for DCS network, Ethernet networks, Servers and Computers.
 - Draw P&IDs, layouts and wiring documentation via AutoCAD.
 - Design, Drawing Graphic and build a logic software simulation by using LabView software which related to National Instruments Company.
 - Have a knowledge with PLC:
 - ❖ ABB AC500 and panel builder 800 graphics.
 - ❖ Siemens Step 7 and Simatic graphics.
 - DCS, PLC Systems and individual systems:
 - Boiler and Management System (BMS Control):
 - ❖ Burners Control System.
 - ❖ Heavy Fuel Oil (HFO) and Light Fuel Oil (LFO) Control System in High/Low Pressure including Storage Tanks, Daily Tanks and Pumps.
 - ❖ Natural Gas Reducing Station Control System.
 - ❖ Gas Recirculation Fan, Forced Draft Fan, Gas reducing stations.
 - ❖ Condensate system, (Condensate pumps, High & Low Pressure heater).
 - Steam Turbine Control System and Electro- Hydraulic System (EHC):
 - ❖ Main Steam Turbine supervisory instrument (TSI).
 - ❖ Turbine Feed Water Pump.
 - ❖ HP/LP bypass system (Steam High Pressure/ Steam Low Pressure Bypass).

- Feed Water Circuit and Feed Water Pumps system:
 - ❖ Electrical FWP and Turbine TFWP for Boiler DRUM.
- Water treatment and auxiliaries Systems:
 - ❖ Cooling water system.
 - ❖ Soot blower system.
 - ❖ Reboiler system.
 - ❖ Closed cooling system.
 - ❖ Demi water system.
- Knowledge with the following auxiliary's systems:
 - Hydrogen Generation and Purity.
 - HVAC Control, interlock with firefighting system.
 - Drinking Water Plant PLC ABB AC500 and panel builder 800 graphics.
 - Vibration and Monitoring System in TSI monitoring of CEMB system (Vibrations in relative and absolute, Differential expansions, Speeds, eccentricity).
 - Public Address System Fitre Astro3000 System (Operation, Maintenance, Installation, programming, Commissioning).
- Fire-Fighting and Fire-Alarm System:
 - Excellent Experience Designing and Maintenance for Fire alarm and Fire-Fighting Protection for Critical areas (Fuel tanks (HFO, LFO), Oil Tanks, Natural Gas Station, Transformers, Buildings and Housing Buildings).
 - Excellent experience for Honeywell Notifier Addressable System and FM200 Fire- Fighting System (Operation, Maintenance, Installation, programming, Commissioning, Designing, wiring) Gas Leak alarm system for burners and natural gas station.
- Site maintenance experience:

Calibration and maintenance for most of the instruments devices used on the field like:

 - Smart positioners in different types such as ABB, STI, Siemens...and etc.
 - Smart transmitters and transducers (Flow, level, pressure, temperature) in different types such as ABB, STI, Siemens...and etc.
 - Switches (temperature, pressure, flow).
 - RTDs, Thermocouples.
 - Local indicators (Pressure and temperature).
 - Actuators (Pneumatic, motorize and Hydraulic).
 - Analyzers (pH, conductivity, chloride, silica, turbidity, H2 purity, Oxygen, Sox and Nox).
- I&C Engineer (Construction, Commissioning, Technical Office Engineer)
 - WDEPCo (Internal Project and Co-operate with ABB Co. in all activities (from 11/2011 to 2015):

Damanhour Power Plant overhauling and control system upgrade: Participate mechanical overhauling & Control System Upgrade activities for 325MW unit. For DCS control system and instrumentation ABB Italy & ABB Egypt handle the rehabilitation for the steam turbine – mechanical activates – Ansaldo Energia. For the boiler – Mechanical activates – Ansaldo Caldaie. Our consultant is FICHTNER Germany.

- QC Engineer:
 - ❖ DCS ABB Symphony Harmony, PLC ABB and PLC Siemens S7.
 - ❖ Work permit rules and supervise works of the contractor staff on the site.
 - ❖ Very good experience in construction activities and have the ability to and find the punch-list items and follow the contractor for new installations and get comments in punch-list and surveillance notice according to the contract rules.
 - ❖ Qualified to solve punch-list items according to the contract rules.
 - ❖ Very good experience for Commissioning activities such as cable continuity, loop check, cold & hot commissioning, start-up the unit.
- Project and Technical Office Engineer:
 - ❖ Had a chance to prepare the bidder of the project.
 - ❖ Working as Project Engineer in the engineering department to review the technical submittals from Contractor and reply to it according to the contract and international standard to be suitable with its function in the plant.
 - ❖ Document Controller all letters and mails.
 - ❖ Have high spirit of searching the contract and ready for technical and management support starting from preparing tender, studying offers til finalize the project in OAC, TOC, FAC and Spare parts.
 - ❖ Attend and make negotiation meeting with the contractor, subcontractors and consultant.
 - ❖ Check the delivered materials and making the MRR.
 - ❖ Revise the invoices and the shipping documents.
 - ❖ Co-operate with the contractor in new designs in specifications and drawings.

Dates : From Nov. 2018 till Apr. 2019

Employer : WDEPCo

Project : Control system upgrade for Matrouh Power Plant (Internal Project)

Job title : I&C Engineer (construction & commissioning)

Job Description :

- Phase 1:
 - I was a Project Engineer and my job is one of team of work at Designing, Installation, Commissioning, project database builder and AutoCAD Drawings.
 - Upgrade design, Cold/Hot Commissioning for the control system from control system to DCS ABB for Demi and Waste system.
 - Constrictions, Commissioning and prepare the database for the project after site survey.
 - Draw as built drawings for layouts, wiring via AutoCAD.
- Phase 2:
 - Study the case to upgrade the Turbine Governor Control System to be ABB DCS.

- Field of experience :**
- Instrumentation and Control (I&C) Engineer (Maintenance, Construction & Commissioning).
 - QC & Technical Office Engineer.