100266-ICX-CMOS-E-2008
I&C Engineer

Holds a B. Sc. in Industrial Electronics & Control Engineering and has about 6 years hands-on experience with deep understanding of Electrical Engineering, Computer Science together with Instrumentation, Process & Industrial Automation.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	23/08/1986
Gender	:	Male
Residence	:	Menoufia

EDUCATION

: B. Sc. in Industrial Electronics & Control Engineering, Menoufia University, 2008

LANGUAGES

Arabic	:	Native Language
English	:	Fluent

COMPUTER SKILLS

: Windows, MS Office (Word, Excel), Internet
: AutoCAD 2D
: Matlab

TRAINING COURSES AND CERTIFICATIONS

: Training in Egyptian Telecom Company.
: Training in Egyptian IRON & STEEL Company as an Instrumentation Engineer.
: Training in Belayim Petroleum Company (PETROBEL) as an Instrumentation Engineer.
: Two times training in Sianco Company for maintenance of gas equipments as a Maintenance Engineer.
: English Advanced II (3IU) Final level certificate from American University in Cairo (AUC).
: Allen Bradley Control Logix PLC Course in Elsewedy (certified from Allen Bradley).
: Automatic Tank Gauging Course (ATG) in OGS (Oil & Gas Skills), certified from OGS & NAIT.

: Process Measurement Course in OGS (Oil & Gas Skills) (certified from OGS & NAIT).
: Maintenance of electronic instruments Course in OGS (Oil & Gas Skills) (certified from OGS & NAIT).
: IOSH Risk assessment course.
: Hazard Area Specification and Instrumentation Selection.
: API Standards for instrumentation & Control Systems.
: Power electronics.
: Real Time Control.
: AC & DC electrical machines.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Feb. 2010 till now
Employer : KHALDA Petroleum Company (KPC)
Job title : I&C Engineer
Job Description :

- Maintenance, inspection and upgrading for different types of oil instrumentation and automation systems in 10 operating areas: Oil processing plant, 6 production facilities & 3 water flooding water.
- Calibration for different types of oil and gas instrumentation.
- Fault diagnosis, trouble-shooting & solving daily problems as they arise on supervisory control instrumentation equipments.
- Read & interpret instrument loop drawings & logic diagrams.
- Inspect, diagnose and verify control systems faults (PLC, relay logic systems).
- Troubleshooting of burner management systems (BMS) associated with test heaters, heater treaters and boilers.
- Analyze frequent problems to find the proper solution taking into consideration the most efficient and economic way.
- Perform periodical checks on SIS, PCS and F&G systems.
- Supervise preventive maintenance implementation for different instrumentations through the computerized maintenance management system (MAXIMO).
- Technical supervision on major overhauling activities.
- Liaison with engineering department in specification of new equipment and installations of new projects.
- Technical review of proposed P&ID's of the new projects.
- Provide technical support to contractor personnel in implementation of work to achieve satisfactory job completion of the new projects.
- Carry out loop/function checks, commissioning and start-up for the new projects.
- Prepare punch lists and handover's for the new projects.
- Verify valves and orifices sizing in relation to the current working conditions using software calculation programs.
- Head office activities like coordinating field requirements, materials, and vendor support.
- Issue "new materials" purchase requisitions for the not available materials and tools, and confirm availability of economical stock level.

- Ensure that all activities are carried out in a safe, timely efficient and cost effective manner to maximize plant availability to meet production targets.

Oil & Gas Projects:

- Participated for 1 year in the commissioning of KALABSHA field (new oil site), performing (wiring test, loop test, function test & logic test) for control panels, performing the software test for PLC Interlock, also performing calibration for different types of smart transmitters, switches, positioners using HART Communicator and also Calibration for Control Valves and there pneumatic controllers.
- Two times commissioning of fire alarm systems one of them is conventional and the other is addressable for extensions in our warehouse.
- Four times commissioning for Notifier (Honeywell) Fire Fighting System FM-200.
- Engineering, design and commissioning for Meliha Pumping Station operated with PLC GE Interlock and it`s control panel to control 5 Booster pumps and 4 HP pumps (with their protections) connected with 7 Tanks using PLC GE series 90-30 and GE control HMI.
  - Made a survey for the site and collected all the inputs and outputs for the site (level switches on the tanks, no flow switch on the suction of the pumps, the pressure switches on the discharge of the pumps also the start perceive signals for pumps and the feedback signals from its soft starter).
  - Made the I/O list.
  - Brought the entire hardware components.
  - Performing the Interlock for the PLC.
  - Made the Wiring Diagram and the control panel for the project.
  - Draw the HMI graphics by using a Smart Draw Program and downloaded it for the HMI the connected it to the PLC Logic.
- Engineering, design and commissioning for Wood Group Pumps Controllers and upgraded it form Wood Group Microcontroller to PLC Logic Control by using Allen Bradley Rsloigx500 and its PanelView HMI.
  - Made I/O list for the Pump (Vibration transmitters, RTDs, no flow and level switches form the tanks at the suction of the pump, the pressure switches on the discharge of the pump and the feed back signals from the pump soft starter).
  - Brought all the hardware components.
  - Performing the Interlock for the PLC.
  - Made the Wiring Diagram and the control panel for the project.
  - Draw the HMI graphics by using a Smart Draw Program and uploaded it for the HMI the connected it to the PLC Logic.
  - Connected the PLC to the Console of the facility by using Switch and Ethernet Communication.
- Engineering, design and commissioning for Water Flood Facility and upgraded it from Relay Logic to PLC Control by using PLC GE series 90-30 and connected it with a control HMI.
  - Made a survey for the site and collected all the inputs and outputs for the site (level switches on the tanks, no flow switch on the suction of the pumps, the pressure switches on the discharge of the pumps also the start perceive signals for pumps and the feedback signals from its soft starter).

  - Made the I/O list.
  - Brought all the hardware components.
  - Performing the Interlock for the PLC.
  - Made the Wiring Diagram and the control panel.
  - Draw the HMI graphics by using a Smart Draw Program and uploaded it for the HMI the connected it to the PLC Logic.
  - Connected the Panel to the field after removing the old connection.
- Engineering and Design for Gas Receiving Station update from relay control to PLC Control system operated by PLC Allen Bradley Control Logix and Panel View plus 1250 Touch Screen.
- Commissioning for Storage Tanks firefighting system operated by PLC GE 90-30 and GE control HMI. Performing the LOOP, Function and Logic Tests. The firefighting system consists of 4 flame detectors and a heat detector for each tank.
- Commissioning for 4 Weatherford HPH Pumps.
  - Performed the cold & hot loop check on the instruments, control loops & Control Panel.
- Commissioning (performing the loop and function test for the system) for 4 Automatic Tank Gauging systems (Endress & Hauser) Float Servo type & prothermo. Connecting the 4 tanks with modbus protocol and connecting them to a tank vision system. Also connected the relay output of each ATG on each tank to the SIS.
- Commissioning for SIS for Oil facility. The system consists of SCADA Allen Bradley, Primary and Secondary CPU with its power supplies, control net redundant communication module, three input modules, two output modules and a contact module, SCADA system is connected via an Ethernet communication module and a hub.
  - Performed the cold & hot loop check on the instruments, control loops & Control Panel.
- Commissioning for Addressable F & G system connecting Oil Processing Plant and the whole site.
- Upgrade for HP gas separator operated with pneumatic controllers to a system controlled by Allen Bradley Rsloigx500 and its instrument (Analogue & Digital) and connected it to the Allen Bradley ESD system and connected it to the SCADA system RsView32.
  - Performing the PID loops for Oil, Water & GAS.
  - Drew of the graphics, animation & communication to SCADA Cimplicity.
  - Participated in the commissioning of all the pneumatic instruments and it`s calibration.

Dates : From Aug. 2008 till Jan. 2010
Employer : MRI Company (Al Mansora for Resins & Chemical Industries)
Job title : I&C Engineer
Job Description : Responsible for the DCS ABB Version 800xA (for the main new Ammonia Plant), PLC Schneider (for the old Ammonia Plant), PLC Siemens S7-200 (for the old Glue Factory), instruments maintenance & calibration and also worked in the project department and was responsible for instrumentation of the new Glue Factory.

Field of experience : Control Systems:

- Allen Bradley PLC5, Micrologix, Compact logix, Flex Logix and Control Logix (Programming, Communication and Troubleshooting).
- Allen Bradley SCADA RsView32 (Programming and Communication).
- Allen Bradley Panel View "HMI" (Rsview Studio).
- Allen Bradley Control Net Network (Rsnetworks).
- PLC GE-Fanuc series (90-30) and (90-70) with I/O Genius Blocks (Programming, Communication and Troubleshooting).
- GE-Fanuc Touch Screen (Programming and Communication).
- GE-Fanuc SCADA Cimplicity (Programming and Communication).
- PLC Schneider Quantum (Programming, Communication and Troubleshooting).
- SCADA I Fix (Programming and Communication).
- PLC (Delta) (Programming, Communication and Troubleshooting).
- SCADA Indu Soft (Delta) (Programming and Communication).
- PLC (ABB) (Programming, Communication and Troubleshooting).
- DCS ABB Version 800xA (Troubleshooting).
- P.L.C Siemens (S5) (Programming, Communication and Troubleshooting).
- P.L.C Siemens (S7-200) (Programming, Communication and Troubleshooting).
- PLC Schneider Zelio software for Zelio Smart Relay.
- PID controller's implementation on mentioned PLCs.

Equipments and Systems:

- Different types of pneumatic & electronic Transmitters:
  - Fisher.
  - Foxboro.
  - Yokogawa.
  - Magnetrol.
  - Hauser & Endress Automatic Gauging Tanking (ATG), Varec ATG.
  - Rosemount.
- Different types of Flow Meters:
  - Halliburton "Nuflo".
  - Oil gear.
  - Daniel.
  - Smith.
  - Fisher (Floboss Computer).
  - Orifice Plate (Junior & Senior).
- Different types of Switches, both electric & pneumatic:
  - CCS.
  - SOR.
  - ITT-Neodyne.
  - FCI.
  - Murphy.
  - Magnetrol.
  - Mobrey.
  - K-Trek.
  - Major.
  - Allen Bradley.
- Control valves (pneumatic, electric and hydraulic).

- Fisher (Control Valves, Positioners, Pneumatic Controllers, I/P, Regulators) also using the Fristvue Program to make sizing for Control valves.
- Masoneilan (Control Valves & Digital Positioners).
- Shutdown valves (pneumatic, electric and hydraulic):
  - Bettis.
  - Orbit.
- Safety & Safety relief valves (spring loaded, pilot operated).
- Safety Selector Valve "SSV" (Agco).
- Pressure regulators (spring loaded, pilot operated).
- Positioners, booster relays and current-to-pressure transducers.
- Natural air draft and forced air draft burners:
  - Natco.
  - En-Fab.
  - WPS.
- Instrument air compressors:
  - Ingersoll Rand.
  - Gardner Denver.
  - Bauer.
  - Al-Hagar.
- Instrument air dryers:
  - Deltech.
  - Pall.
  - Dominick hunter.
- NUOVO PIGNONE multi-stage centrifugal pump.
- Wood Group multi-stage centrifugal pumps.
- National Multi-stage reciprocating pumps.
- BENTLEY NEVADA Vibration system series TDM 3300.
- Gas blanketing system for water tanks.
- Fire fighting systems for Storage Tanks with Floating Roof.
- Notifier (Honeywell) Fire Fighting System FM-200.
- Fire & Gas Detectors:
  - Gas detectors.
  - Smoke detectors.
  - Heat detectors.
  - Flame Detectors.
  - Fire Diesel pumps controller.
- Vibration (Switch & Transmitter):
  - Murphy.
  - Bentley Nevada.
  - CTC.
  - Mertix.

Process Systems:

- Oil/Gas/Water separation.
- Crude oil dehydration & desalting.
- Gas pressure letdown stations.
- Pumping Stations.
- Fired electrostatic heater treaters.
- Chemical injection.
- Chilling and dew pointing.
- Gas treatment and processing.

- Reverse Osmosis units & water distillation.