

106066-ICX-148CMOS-E-2010
Senior Automation & Control System Engineer

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 12 years hands-on experience working in I&C / Automation field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 08/01/1988
Gender : Male
Marital Status : Single
Residence : Cairo

EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Cairo University, 2010

LANGUAGES

Arabic : Native Language
English : Excellent

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Certified CISCO Cyber Security at Network Academy (2021).
- : Certified Triconex Engineer (Courses # 8902, 8903, 8905 & 8950).
- : Allen Bradley ControlLogix Fundamental, Maintenance & Troubleshooting Course.
- : PMP - Project Management Professional course, Amid east.
- : SCADA Wonderware system.
- : Environmental Health Safety and Sustainability Awareness Training.
- : PLC (Programmable Logic Control): Schneider Electric, Allen Bradley RS Logix trainings.
- : MATLAB Introduction (HIGH TECH. CENTER, Faculty of Engineering - Cairo University), MATLAB programming and MATLAB SIMULINK.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jun. 2021 till now
Employer : WOOD Co.

- Project** : Midor Expansion Project
Midor Project is a Brown Field Project that includes Construction, Pre-commissioning / commissioning, and Start-up Activities.
- Job title** : Senior Automation & Control System Engineer
- Job Description** : Responsible for coordinating activities as follow:
- Champion the Project Safety culture, behaviors and engagement activities.
 - Participating in daily meetings.
 - Walk down with contractor following up Construction Pre-commissioning and Commissioning Activities.
 - Perform field inspections, attend system / sub-system walk downs (Walkthrough), confirming equipment readiness for pre-commissioning as per project specification and ITP(QCP).
 - Check items installed Vs scheduled.
 - Act as single point of contact for validation/sign-off of test documentation at SAT(s) whilst always ensuring the SAT/tests are completed in as an efficient manner as possible. Including but not limited Control Rooms CR10 and CR11.
 - Verify modifications of DCS/ESD architecture-connectivity.
 - Check scope implementation in terms of DCS/ESD hardware & software.
 - Issue Non-Conformities Reports.
 - Test and validation of DCS/SIS/FGS systems through to RFSU Ready for Start-up.
 - Report to Automation Leader, Construction Manager, QC Manager and Commissioning Manager.
 - Following up Punch listing Activities.
 - Attend technical meeting with Owner, Licensor, EPC Contractor and Vendors.
 - Competent in the use of Permit to Work (PTW) and Management of Change (MoC) processes.
 - Supervise and manage the review and approval of EPC Contractor's work, ensuring compliance with Owner and Project specifications, relevant codes and standards, and industry best practices.
 - Influence Facilities and Equipment design optimization.
 - Provide technical assistance and coordination with other discipline Engineers.
 - Attending Test (SAT Site Acceptance Test) and PCC Pre-commissioning and Commissioning activities.
 - Providing start-up and commissioning support of control schemes to production departments.
- Dates** : From Jul. 2019 till Feb. 2021
- Employer** : ETS Oil Co.
- Job title** : Senior Automation Engineer
- Job Description** :
- Control System Specialist for BHGE Reciprocating Gas compressor Project (Jul. 2019 – Sep. 2019): Participating in Pre-commissioning, Commissioning and starting up Gas compressor (10 bar to 150 bar) includes but not limited Loop checking, function test as per Cause and Effect and performance test.
 - Control System Specialist for Sigma Thermal Project (Jan. 2021 – Feb.

2021): Participating in SAT Activities, Pre-commissioning, Commissioning and starting up an indirect heater includes Loop checking, Logic test as per Narrative, function test and performance test.

Dates : From Apr. 2019 till Jul. 2019
Employer : PPS PICS Process Systems Co.
Project : Air Liquid Project
Job title : Lead SIS Engineer
Job Description : Implementing ESD Software - Triconex Cx SIS system Against Cause and Effect and IO List database.

Dates : From Jun. 2016 till Dec. 2018
Employer : ADES (Advanced Energy Systems) Offshore Co.
Project : A MOPU (Mobile Offshore Production Unit) – Crude Oil process treatment - Brown Field
Job title : Senior I&C Engineer
Job Description :

- Operation & Maintenance phase:
 - Maintenance, troubleshooting and configuration for I&C devices including Control Cabinets and Instrument Field Devices.
 - Providing support of control schemes to production departments during operation phase.
- Project Phase – Site Activities:
 - Participating as Senior I&C Engineer in construction phase including panel fixation and control room preparation.
 - SAT procedure, I/O check and Loop test for ESD (Trident PLC) and FGS Systems (PCC Pre-commissioning Activities).
 - Providing start-up and commissioning support of control schemes to production departments.
 - Establishing communication between all devices and SCADA system.
 - Participating in function test, commissioning and starting up.
 - Good knowledge and understanding of Field instrumentation including F&G systems, shutdown valves and control valves.

Dates : From Jun. 2015 till Jun. 2016
Employer : Metito Co.
Projects :

- New Ismailia Project Water Treatment
- Tor Project Water Treatment
- YOSR 1, 2 Project Water Treatment

Job title : I&C Engineer
Job Description :

- Extensive experience in Control Systems & good experience in Instrumentation in range of EPC.
- Responsible for the detailed design of the following:
 - The process instruments and all the needed accessories/fittings.
 - The Automatic Control Systems including Control System Architecture, Hardware, Software (SCADA/DCS/PLC ...etc.), IT, Industrial communication network ... etc. With respect to the project time and cost constrains.
- Issue the BOM and BOQ required for procurement.
- Issue GA drawings including the installation details.

- Review, evaluate and approve the team design documents.

Dates	:	From Nov. 2010 till Jan. 2015
Employer	:	Schneider Electric, Invensys EEC Egypt Co.
Projects	:	<ul style="list-style-type: none"> • Senior Automation Engineer for the China Nuclear Power Plants projects at China with Invensys Engineering Pte Ltd (2014 – 2015): <ul style="list-style-type: none"> - Responsible for Validation of classified safety SW products part of reactor protection system for China Nuclear Power Plant project in China. - Creating Software and Hardware Validation Test Plan. - Responsible to perform all SIS Validation tests on equipment utilizing SRS. - Hardware and Software Validation test scoping. - Good Experience in SIS / ESD validation. • Senior Triconex Application Engineer for the Petrochemical LDPE project at Saudi Arabia with Invensys Engineering Pte Ltd (2013): Participating in site activities as following: <ul style="list-style-type: none"> - Triconex (ESD/FGS) cabinets BOM Visual check. - Performing SAT Activities. - Performing I/O check and Loop test for ESD and FGS System. - Performing Software check and Function test as per C&E document. - Commissioning and starting up. • Junior Triconex Application Engineer for the Gas Compression Baltim project in Egypt with Invensys Engineering Co. (Sep. 2012): Participating in site activities as following: <ul style="list-style-type: none"> - Triconex (ESD/FGS) cabinets BOM Visual check. - Performing SAT Activities. - Performing I/O check and Loop test for ESD and FGS System. - Performing Software check and Function test as per C&E document. - Commissioning and starting up. • Junior Triconex Application Engineer for KCO – KIB Kashagan Industrial Building Project in Kazakhstan Atyrau with Invensys Engineering Co. (Jul. 2011): Participating in site activities as following: <ul style="list-style-type: none"> - Triconex cabinet BOM Visual check. - Performing SAT Activities. - Performing I/O check and Loop test. - Performing Software check and Function test. - Commissioning and starting up.
Job title	:	Triconex SIS Engineer
Job Description	:	<ul style="list-style-type: none"> • Execute project work scopes in accordance with customer requirements, corporate practices and project procedures and standards. • TMR (Triple-Modular-Redundant) SIL3 safety and critical control systems Design (TRICON / TRIDENT). • Prepare and submit Functional Design Specifications documents including system design and configuration based on design input documents/systems studies and/or site surveys. • Prepare, modify, review and submit project documents (FDS, Cross wiring & IO list, Loop drawings, typical documents, OTP (Operational Testing Procedure), FAT/SAT check list and procedures...).

- Perform software logic coding and programming:
 - Creating the project library for custom typical (FB) based on the design input documents.
 - Logic implementation from Cause & Effect, Flow Chart Diagram, Vendor Narrative, Safety Instrumented Function (SIF) Narratives and P&ID drawings.
- Upgrade MSW Ladder logic to FBD programming Language.
- Conduct Factory Acceptance Test, and Site Acceptance test with Customers.
- Process and logic Simulation using Emulator and DYN SIM process simulation software.
- Perform loop check and function test prior to commissioning.
- Perform on-site engineering start-up and application commissioning.
- Perform Integrated FAT, Function Test and familiar with the following DCS systems testing & operations:
 - SIEMENS WinCC.
 - Yokogawa Centum VP/CS3000.
- Ensure all project deliverables are of highest quality and meet the schedule and requirements.
- ESD (Emergency Shutdown Systems), PSS (Process Safety System), HIPPS (High-Integrity Pressure Protection System), F&G (Fire & Gas), BMS (Burner Management System) and Compressor/Turbine/Governor shutdown.
- All the engineering activities in software programming and hardware diagnostics and configurations:
 - System cabinets check for detailed layout and power distribution.
 - Calibration, loop checking and troubleshooting of field instruments.
 - Wonderware Intouch HMI development and configuration.
 - P2P, Modbus and OPC communication configuration and implementation.

- Further experiences :** Senior I&C Engineer at Egypt with Sigma Thermal Company (Jan. 2021):
- Participating as Senior I&C Engineer in SAT procedure, I/O check and Loop test for ESD (Trident PLC) indirect heater.
 - Participating in function test, commissioning and starting up.
 - Providing start-up and commissioning support of control schemes to production departments.
 - Good knowledge and understanding of Field instrumentation including calibrating transmitters.

- Field of experience :**
- Engineering professional with 12 years of hands-on experience of Industrial Automation, Integrated Control and Safety Systems ICSS ((PLC, ESD, TMC, DCS, SCADA, F&G, Vendor packages), HMI, and Batch Control applications) in Oil & Gas, Petrochemicals, Refineries and Power industries. I have been working in different areas and work locations (office, staging area, onshore and offshore sites) with different cultures and nations. I have been participating in many aspects of the job cycle including technical issues, preparing functional design specifications, interfacing with customer during all project phases, project and applications engineering, FAT, Integrated FAT, SAT, Loop check, Pre-Commissioning, Commissioning, startup activities and operation and maintenance phase.

- Business Trips: Kazakhstan – Atyrau, KSA – Jubail, China – Beijing.
- Skills:
 - ESD & FGS: Triconex, Trident, HIMAX.
 - PLC: Allen Bradley, Schneider Electric.
 - TMC: Reciprocating Compressor BHGE.
 - Building Functional Design Specification and Engineering documents.
 - Client assessment and analysis.
 - Factory/Site Acceptance Test (FAT/SAT).
 - Commissioning & Startup activities (SAT).
 - HMI/SCADA: Wonderware Factory Talk& Wincc.
 - DCS: Honeywell Experion.
- Successful of completion of different projects with different scopes/phases starting from preparing functional design specification to engineering, FAT, IFAT, SAT, Pre-commissioning, Commissioning and startup activities:
 - Midor Refinery Expansion Project (I&C PMC Engineer) Brown Field - 2021 till now.
 - Italfuid Gas Compressor Project, Gas compression plant, Gas compressor performance test – 2019.
 - Air Liquid Poland ESD Project, ESD system for Schneider electric France -2019.
 - ADES MOPU Project, Offshore Oil Production treatment plant, Brown Field in Egypt – 2016.
 - China Nuclear Project, CNNC and CNCS companies in Beijing, China – 2013.
 - Hunstman BMS Project, with Invensys USA office - 2012.
 - LDPE Petrochemical Saudi Kayan Project, with Daelim Co. in Saudi Arabia - 2012.
 - Baltim FGS/ESD Project, with Petrobel Company in Egypt - 2011.
 - KCO KIB Kashagan Industrial Building Project, Triconex, SAT and PCC Activities in Kazakhstan - 2011.