

100283-CSX-4CMOS-E-2006
Automation, Control & Instrumentation Engineer

Holds a B. Sc. in Control Systems & Biomedical Engineering and has over 10 years of experience in engineering and commissioning for process automation, specifically in Refinery plants.

PERSONAL DATA

Nationality : Egyptian
Gender : Male

EDUCATION

: B. Sc. in Control Systems & Biomedical Engineering, Helwan University, 2006

LANGUAGES

Arabic : Native Language
English : Good
German : Basics

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Project Management Institute membership, Project Management Professional (PMP) accredited 36 hours.
: Preparation of ISA-CAP® certificate - Certified Automation Professional (CAP).
: Personal Professional Skills Diploma - Boeing workshop Scholarship.
: Attendance of Functional Safety course – TUV SIS.
: Hazardous area & safety related systems course - COMPEX PROTEX.
: International English Language Testing System (IELTS): Band score 6.
: German: A1.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : 2018
Employer : DNV-GL
Project : Egyptian Refinery Company Project - ERC - Egypt - Refinery - 2018
Job title : Control & Instrumentation Engineer

Job Description :

- Supervising Commissioning activities (Function Test).
- Clearing Punch list.
- Review and clarify project specifications.
- Inspect programming system (DCS Honeywell Experion PKS) in accordance with Standard IEC-61499.
- Inspect programming systems (Siemens PCS7 - AB ControlLogix 5000) according to Standard IEC-61131-3.
- Inspect instruments complying with Standard BS EN 60079.

Dates : 2017

Employer : GS Engineering & Construction

Project : Egyptian Refinery Company (ERC) refining project – Refinery / ERC / Egypt

Job title : Control & Instrumentation Engineer

Job Description :

- Perform reviewing FEED documents (IO List, Instrument List, P&ID).
- Perform reviewing detailed instrumentation deliverables (The Philosophy of the Automation and Control System, The Control System Block Diagram, Emergency Block Diagram, Cause & Effect Matrix, Control System Loop Diagram and Logic Diagram, Instrumentation Cables Specifications, data sheets, F&G Detector's data sheets, Instrumentations layout, Instrumentations and control System Function Specifications, Data sheets and Material Requisitions) in compliance with API standard, vendor recommendation & company policies.
- Conducting Pre-commissioning activities (SAT, Loop Test).
- Coordinate project work across departments.
- Actively manage non-compliance and/or deviations and take necessary actions to ensure customer acceptance.
- Conducting cold test & optimizing the Process Control Logic for DCS, ESD, FGS, Packages PLC.
- Tools & Techniques:
 - DCS: Honeywell Experion PKS.
 - ESD/Gas Detection: HIMA SilWorx.
 - PLC: Siemens SIMATIC S7, AB ControlLogix 5000.
 - PAM: Honeywell field device manager (FDM).

Dates : From Sep. 2011 till Feb. 2017

Employer : Yokogawa Middle East & North Africa

Job Description :

- PetroRabigh Plant – Petrochemicals O&M/ Aramco-Sumitomo (JV) / Saudi Arabia – 2016 (Control & Instrumentation Engineer):
 - Accomplished Shutdown Maintenance plan for DCS, ESD & FGS systems via Oracle Primavera.
 - Support operation & maintenance (O&M) team for preventive maintenance plan (weekly, monthly, quarterly, 6 month, and annually).
 - Participating CMMS team for checking orders, feedback & backlog at system SAP PM.
 - Accounting spare parts for instruments & systems components and updating SAP software.
 - Tools & Techniques:
 - ❖ DCS: YOKOGAWA CENTUM VP.

- ❖ ESD/FGS: PROSAFE RS.
- ❖ PLC: Siemens SIMATIC S7.
- ❖ Management: Oracle Primavera P6.
- ❖ CMMS: SAP PM.
- YASREF Project – Refinery / Aramco-Sinopec (JV) / Saudi Arabia – 2015 (Control & Instrumentation Engineer):
 - Commission & start-up PCSs; - Burner Management system (BMS), Boiler Control system, Vibration system; - BN3500, Anti-Surge system & Performance system; - CCC, Motor Control system.
 - Discuss with UOP licensor for commissioning Hydrocracker unit & Air Liquide vendor for Hydrogen unit.
 - Participate in configuration/modification of Information Management System (IMS).
 - Tools & Techniques:
 - ❖ DCS: YOKOGAWA CENTUM VP.
 - ❖ Woodward.
 - ❖ CCC Anti surge.
 - ❖ ESD/FGS PROSAFE RS.
 - ❖ IMS: Yokogawa EXA-Quantum & EXA-OPC.
 - ❖ PAM: Yokogawa PRM.
- AMAL Steam Surface Facilities phase I - Oil Production / PDO-Shell (JV) / Oman – 2014 (Control & Instrumentation Engineer):
 - Supervise installation of control room layout, systems panels & network layout, integration with sub-systems PLCs, Fiber Optic network, Human Machine Interface (HIS) & servers.
 - Commission & start-up PAS (Yokogawa PRM), OPC server (Yokogawa Exa-OPC), along with DCS (Centum VP) for control systems of Utility affiliates: Instrument Air Compressor, Air dryer, Chemical Injection Packages, Raw, Potable, Demi, Cooling & Fire Water Systems.
 - Tools & Techniques:
 - ❖ DCS: Yokogawa CENTUM VP.
 - ❖ OPC: Yokogawa Exa OPC.
 - ❖ ESD/FGS: Yokogawa PROSAFE RS.
 - ❖ PAS: Yokogawa PRM.
 - ❖ PLC : Siemens SIMATIC S7.
- AMAL Power Plant – Power / PDO-Shell (JV) / Oman – 2013 (Control & Instrumentation Engineer):
 - Review & make As-built all project documents: I/O List, loop diagram, wiring diagram, Panels General arrangements & nest loading, P&ID.
 - SAT procedures, system hierarchy, Engineering & control room layout, Graphic pages and method of statement for commissioning & start-up.
 - Lead Function Test of safe guarding system as per Cause & Effect matrix, clear punch items & finalize as built drawings as per client requirements of modification & addition new signals.
 - Perform Start-up of High Integrity Pressure Protection System (HIPPS) via ESD system, Plant Asset Management (PAM) & Machine Monitoring System (MMS).
 - Tool & Techniques:

- ❖ DCS: YOKOGAWA CENTUM VP.
- ❖ PAM: Yokogawa PRM.
- ❖ ESD/FGS: PROSAFE RS.
- ❖ MMS: GE Bentley Nevada BN3500.
- RAMADAN 6 rehabilitation (Off-Shore Plant) – Oil production / GUPCO-BP (JV) / Egypt – 2013 (Control & Instrumentation Engineer):
 - Manage installation, commissioning & start-up of ESD & FGS systems (Prosafe-RS) & instruments (OPGD, flammable, Toxic gas detectors, IR Gas Detectors, Smoke, Oil Mist, Heat Detectors, MAC's, Sirens & Strobes, IR CCTV's).
 - Tools & Techniques: ESD/FGS: Yokogawa PROSAFE RS.
- Main Compression phase VII – Gas Production/ Burullus-BG (JV) / Egypt – 2012 (Process Control Engineer):
 - Supervise & conduct function test for DCS installation, including power distribution, system interconnections, loop check and network trouble-shooting.
 - Alarm Rationalization: Introducing and planning the effective opportunities to reduce the alarm flood, Review P&ID to define the necessary alarms and the priority for each alarm & Configuring Alarm Management System.
 - Follow up project schedule.
 - Reporting to project champion.
 - Tools & Techniques:
 - ❖ DCS: YOKOGAWA CENTUM VP.
 - ❖ AMS: Yokogawa Consolidated Alarm Management (CAMS).
- Crude Distillation Unit 1 DCS Upgrade / Assuit Refinery ASORC / Egypt – 2011 (Process Control Engineer):
 - Create project database, loop drawings, Functional Design Specifications (FDS), System Architecture, Vnet/IP Network, Software configuration: Function Blocks, Logic Charts, Sequence charts and HMI configuration and Graphics.
 - Commissioning & start-up control systems DCS: Centum VP and Packages PLC: Siemens SIMATIC S7 400, Anti-surge system & Governor System for reciprocating & centrifugal compressors/pumps, Tank Gauging system by E+H system, and Truck scale system.
 - Tools & Techniques:
 - ❖ DCS: YOKOGAWA CENTUM VP.
 - ❖ PLC: Siemens SIMATIC S7.
 - ❖ SCADA: Siemens WinCC.
 - ❖ PLC: Schneider UnityPro.

Dates : From Jun. 2008 till Nov. 2010

Employer : Global Technical Services (GTS)

Job Description : • Cutting Machine Management System - Ezz Steel - Egypt - Industrial - 2010 (Control System Engineer):

- Configure the project database, system architecture, system logic & process graphics.
- Develop Alarm Management System.
- Develop Information Management system & adjust work reports according to time basis.

- Tools & Techniques:
 - ❖ PLC: Schneider Unity Pro.
 - ❖ SCADA: Vijeo Citect.
- Upgrading SCADA of Flat Steel Application - Manufacturing/ Ezz Steel/ Egypt – 2008 (Control System Engineer):
 - Configure SCADA Wonderware InTouch 10.1, Active Factory 9.2 & Historian Server 9.0.
 - Add new Alarm summary & Alarm history Screens, Modify old Screens, Write Scripts to perform new Functionalities.
 - Install and configure the Historian Server, Active Factory, Replace the old Communication cards between the Siemens S5 PLC & SCADA, Configure the communication between the SCADA system & Level 2.
 - Replace the old Fiber Optic Converters.
 - Create the Project Documents (Bill Of Material, Functional Design Specification).
 - Tools & Techniques:
 - ❖ CMMS: GMS.
 - ❖ SCADA: Wonderware InTouch 10.1.
 - ❖ PLC: Siemens SIMATIC S7.

- Field of experience :**
- More than 10 years of experience in engineering and commissioning for process automation.
 - Most achievement at YASREF Refinery (Yanbu, KSA) (Saudi Aramco/Sinopec), (400,000 bbl/d (64,000 m3/d)), with extinct handover with operations.
 - CORE OF COMPETENCIES:
 - Software Coding.
 - BMS Controlling.
 - Panel Building.
 - PID Optimization (APC).
 - Project Planning & Scheduling.
 - Maintenance Planning.
 - Shutdown Activities.
 - Commissioning & Start-up.
 - Internship & Simulator Training (OTS).
 - PCS System Specialist; DCS & PLC.
 - SIS System Specialist; ESD & FGS.