

104778-CSX-5CGMOS-E-2006
Automation & Instrumentation Manager

Holds a B. Sc. in Industrial Electronics & Control Engineering and has about 14 years hands-on experience working in automation and instrumentation field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 15/02/1985
Gender : Male
Marital Status : Married
Residence : Qena

EDUCATION

- : B. Sc. in Industrial Electronics & Control Engineering, Menoufia University, 2006
- : Currently studying Business Administration (MBA) at the Naval Academy in Cairo

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

- : Windows, MS Office, Internet
- : Simatic PCS7 and S7-300
- : PROFIBUS, PROFINET, ASI, OPTICAL FIBER networks
- : TPM, KPI and quality system

TRAINING COURSES AND CERTIFICATIONS

- : Simatic PCS7 system course (SITRIAN) (SIEMENS Germany).
- : PLC Siemens S300 (Engineers Syndicate at Suez branch).
- : Woodward governor 505 controller (Target Engineering).
- : Pneumatic system (Arkan Technology).
- : CMX Calibration Management SW (beamx Oy Ab).
- : OSHA TRAINING COURSE (Gulf Safety and Technical Training Center).
- : FSSC 22000 (ISO2001, PRC) Food safety sys.
- : TPM, KPI system.
- : Fire fighting.

- : 6 English levels (Berlitz®) under supervision of FGF (Future Generation Foundation).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Feb. 2017 till now
- Employer** : The Egyptian United Company for Sugar (U.S.C.E), Savola Group, Osra Sugar Comp.
- Job titles** :
 - AUTOMATION & INSTRUMENTATION MANAGER (from 2019 till now)
 - SR. AUTOMATION & INSTRUMENT ENGINEER (from 2017 till 2019)
- Job Description** :
 - Technical Expertise:
 - Expert in SIMATIC PCS7 V6.1, V7, V9.
 - Technical Manager supervision in upgrading DCS from V6 to V9.
 - Installing & configuring Central archiving server C.A.S.
 - Expert is SIMATIC 3rd party Controller.
 - Co-Leader in digital transformation pillar in our plant.
 - Expert in SIMATIC S7-300, S7-200 and S7-1200.
 - Expert in Programing all HMIs.
 - Expert in Allen Bradley & Schneider PLCs and HMIs.
 - Maintenance and Troubleshooting of the filed instruments including:
 - ❖ Various types of switches and transmitters (Pressure, Level, Temperature, Flow, Density) with various models like (Siemens, Fisher, ABB, Endress+Hauser) with various protocols like (Profibus, Profinet, HART, AS Interface).
 - ❖ Various types of control valve's positioners (Tyco, SIEMENS SPART PS2, AUMA Electrical Actuators).
 - ❖ Online Analysers (pH, Conductivity, O2/Co2, O2/Ar, N2/Ar, Hydrocarbon,).
 - ❖ PROFIBUS, ASI, Profinet and Fiber Optics network maintenance and troubleshooting.
 - ❖ Configuring VEGA field devices via PACTWARE software.
 - ❖ Configuring SIEMENS field devices Via Sematic PDM software.
 - ❖ 50 KG weighed (chronos).
 - ❖ 1 ton weighed (tronix).
 - ❖ Calibrate any mettle & Toledo weights with various ranges.
 - ❖ Calibrate Pascale weight 120 ton.
 - ❖ 1 kg packing machine and its Allen Bradley PLC.
 - ❖ Calibration and maintenance of check weighed system.
 - Configure Allen Bradley Drives, ABB Drives, Micromasters and Sinamics drives, also we can communicate them with DCS or PLC and install them in closed loop system with any operation variables (Temperature, flow and Pressure).
 - Using BEAMX CMX Program to create Calibration certifications and database for field instruments.
 - New Projects:

We make several new projects such as Mud press system, new deep filter, CO2 Absorber system and cooling tower system, also we make any update in the as built system. For any project we do all the following activities:

 - Choice and Design the required Instruments and the required machines (with mechanical team).
 - Prepare and fabricate the required MCC for all the designed

- machines.
- Install all the designed instruments (Positioners with actuators for any control valves, any transmitters, any switches, ON/OFF actuators using ASI).
- Choice and design and install the suitable protocol for instruments network with DCS or PLC (Profibus, Profinet AS-Interface or HART).
- Design and Install all DCS, PLC Panels and modules with all safety barriers required to safe these modules.
- Making the Hardware Configuration.
- Prepare the required logic to control the system using CFC, Ladder and /or SFC.
- Design the graphics using wincc, wincc flexible.
- We prepare Wiring diagrams for all new panels and networks.
- Managerial Expertise:
 - Prepare the required S.O.P (Standard operation procedure) for Calibrating all Instruments, dealing with automation Equipment and ways to calibrate any weight and keep these S.O.P Issue date, issue NO. Updated and coded from quality dept.
 - Develop, implement and review a preventative maintenance and corrective maintenance including monitor equipment availability.
 - Making spare part control using ORACLE S.W and finding solutions to repair the failure items, this will decrease our spare parts consumption.
 - Evaluate our success (Packing Plant) using KPIs (Key Performance Indicator) which updated yearly to match SAVOLA Group Strategies.
 - Achieving KAI-ZEN and more useful update to improve machine safety, performance.
 - Lead the TF meeting (task force) of the maintenance department in Packing Plant as a part of the TPM program in the company to discuss and manage the daily breakdowns and reading all our weekly KPIs Number and discuss how to making this more better.
 - Co-Leader in digital transformation Pillar in the plant.
 - Co-Leader in autonomous maintenance pillar in our plant.
 - Member in the preventive maintenance pillar in our plant.

Dates : From 2016 till 2017

Employer : HAYAT EGYPT

Job title : SENIOR AUTOMATION & INSTRUMENT ENGINEER

Job Description : • Responsible on install all E&I equipment in the Non-Woven Plant as:

- 22KV-400v transformers (7 TRs).
- The earthing network of the plant.
- Cooling chillers and AHU system.
- Power cables from the substation to our plant.
- MCC for all machines in the plant.
- Control room and automation network using S7-300 and wincc as the HMI.
- Profinet network for all instruments.
- Install PT100s, Thermocouples, Pressure transmitters, level transmitters, Current transmitters, control valves with positioners, flow transmitters and configure all these instruments in s7-300 and

wincc.

- Make the commissioning for the plant.
- Develop, implement and review a preventative maintenance and corrective maintenance including monitor equipment availability and spare part control using SAP.

Dates : From May 2010 till 2016
Employer : Suez Steel Company
Job title : SENIOR AUTOMATION & INSTRUMENT ENGINEER
Job Description :

- Responsible on install all E&I equipment in the Air Separation Plant as:
 - 6.6KV-400v transformers (2 TRs).
 - Pneumatic & hydraulic control valves with Siemens Positioner.
 - Thermocouples, Yokogawa and Siemens FT (flow transmitter), LT (level TR), PDT (pressure TR), vibration transmitter, speed transmitter, current transmitter Power cables from the substation to our plant.
 - MCC for all machines in the plant.
 - 11MW & 5MW multi stage compressors.
 - Turbo booster-expander.
 - SIEMENS DCS System PCS 7 v.6.
- Making the necessary modification in the LOGIC program to matching our planning production.
- Making the necessary modification in the HMIs and wincc to deliver more facilities for the operators.
- Making instrument laboratory for Maintenance and calibrating our instruments.
- Develop, implement and review a preventative maintenance and corrective maintenance including monitor equipment availability and spare part control using SAP.

Dates : From 2009 till 2010
Employer : Egypt & Middle East (E.M.E) Co.
Job title : Maintenance Engineer
Job Description :

- Technical support in the maintenance department.
- Making the necessary maintenance for the Panasonic copier devices.

Dates : From 2007 till 2009
Employer : Multi Technology Co.
Job title : Maintenance Engineer
Job Description :

- Design and draw electronic board.
- Make the maintenance for any damaged electronic board.
- Making the necessary maintenance for the plastic injection machine.
- Programed Motorola Micro controller unit.
- Programed Mitsubishi, Allen Bradley and Schneider PLC.