

105686-CSX-145CDMSi-E-2017
DCS Project Application Engineer

Holds a B. Sc. in Industrial Electronics & Control Systems Engineering and has more than 4 years of experience in petrochemicals, oil & gas, industrial manufacturing fields and Automation Maintenance.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 24/09/1994
Gender : Male
Marital Status : Single
Residence : Giza, Cairo

EDUCATION

: B. Sc. in Industrial Electronics & Control Systems Engineering, Menoufia University, 2017

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: EXPERION PKS DCS
: C300 Mark II
: CAD work
: Modbus, Profibus, HART
: SCADA, HMI
: PLC (Siemens, Omron, Mitsubishi, Allen Bradley)

TRAINING COURSES AND CERTIFICATIONS

: PAS Hardware Qualification, Honeywell.
: PAS HMI Qualification, Honeywell.
: PAS Control Qualification, Honeywell.
: PAS HMI Graphics Design Certification, Honeywell.
: EXP6000 R511, Experion PKS: Fundamentals & System Overview, Honeywell Automation College.
: EXP2001 R501 Experion PKS: Control Implementation, Honeywell Automation College.
: EXP-03 R501, EPKS: HMI Graphics Design, Honeywell Automation College.

- : SM-50003, Safety Manager SC: Fundamentals – Implementation and Maintenance Honeywell Automation.
- : HSE Safe Electrical Work Practices (HON307 BASED NFPA70 STANDARD), Honeywell.
- : Six Sigma Fundamentals.
- : Siemens PCS7 DCS Training.
- : CISCO networking fundamental training, Udemy.
- : Refinery shutdown HSE training, Technip Energies.
- : HMI Design Using Siemens WinCC Flex, Awan Training Center.
- : Siemens PLC S7-200 & S7-300 Basic, Awan Training Center.
- : Learn 5 PLCs in one Day, Udemy.
- : Training from Scratch on RSLogix500 & 5000, Udemy.
- : Electric Rotating Machines and motors and its Control, Awan Training Center.
- : Mitsubishi Factory Automation System Components and IQ Works tools.
- : Global Maintenance Management (GPM) and Lean Manufacturing Fundamentals, Elaraby.
- : Internships:
 - Instrumentation Engineer at Middle East Oil Refinery (MIDOR) (2 weeks).
 - Instrumentation Engineer at CAIRO Oil Refining Company (CORC) (1 month).
 - Instrumentation Engineer at Egyptian Projects Operation and Maintenance (EPROM).
 - Electronics Engineer at Banha for electronic industries (1 month).
 - Project Engineer at Elaraby Co. for Engineering Industries (1 year) (Graduation Project Internship).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Sep. 2019 till now
- Employer** : Honeywell, Cairo
- Job title** : DCS Project Application Engineer
- Job Description** :
 - NCIC NEW FERTILIZERS COMPLEX – PROJECT ENGINEER – HONEYWELL / THYSSENKRUPP – EGYPT (Dec. 2019 - now):
 - Phase 1 - Hardware Design Engineer:
 - ❖ Designed and planned overall system architecture with all connections and nodes to DCS over the plant.
 - ❖ Designed and planned Experion C300 Mark II DCS cabinets.
 - ❖ Designed and Planned Field marshalling cabinets to fulfill customer requirement using MTL/Weidmuller.
 - ❖ Designed and Planned network/server cabinets – CISCO switches & Dell Server machines.
 - ❖ Designed and Planned PDP cabinets for both system and field devices.
 - ❖ Designed and Planed Bentley Nevada 3500 MMS panels and Woodward TSC control panels.
 - ❖ Lead and Supervise panels construction work as per approved IFC layout design drawing.
 - ❖ Put orders for materials and Preparing PRs.

- ❖ Prepared and controlled Project technical documents through project workspace and DCRMT tool (Power & heat, BOM, GA Drawings, SAT & FAT procedures, Cables lists ...).
- Phase 2 - Pre-FAT and FAT – Testing Engineer:
 - ❖ Inspection and QC checks for all project panels (80 Panel).
 - ❖ Pre-FAT punch recoding and take immediate actions to rectify.
 - ❖ Successful Remote Software and HMI FAT with customer.
 - ❖ Successful Remote Hardware FAT with customer and owner.
 - ❖ FAT punches recording and checklists preparation.
 - ❖ Preparing packing list and release for shipment.
- Phase 3 (ongoing) - SAT, Pre-Commissioning / Commissioning – Commissioning Engineer:
 - ❖ Supervising cabinets installation and cables laying.
 - ❖ Inspection, QC checks and Passive SAT activities.
 - ❖ Release panels for powering up.
 - ❖ Prepare site instructions for required hardware modifications at site.
 - ❖ Hardware issues troubleshooting in both system and marshaling cabinets.
 - ❖ HMI and Engineering Workstations installation.
 - ❖ Loading Experion PKS application to controllers (C300 Control builder).
 - ❖ History assignment Bulk edit.
 - ❖ Logic and HMI graphics modifications as per process team requirements.
 - ❖ Trip interlock sequences configuration and modifications as per Cause and effect schedules.
 - ❖ Calibration of Hart enabled field instruments using FDM server.
 - ❖ DCS/ESD integration on MODBUS with HIMA.
 - ❖ DCS integration to all 3rd packages (Machine monitor, Turbine speed Control, gas metering ...). Establish communication and configure SCADA points for same.
 - ❖ Loop check, Commission and put in service for filed instruments (FDM server, HART handheld).
 - ❖ Commission/startup of BMS, Utilities and off-sites unit (ongoing).
 - ❖ Commissioning/startup of Ammonia, Urea and NA/CAN plants (ongoing).
- CAIRO WEST POWER GENERATION PLANT – SYSTEM ENGINEER – HONEYWELL (Feb. 2021 - now):
 - Configure & commission OPC server for data integration with SIEMENS PLC WTP package.
 - Configure & commission Eserver for business administration and plant view only remote access.
 - Experion system Administration tasks (creating user accounts, sign on admin, security configuration).
 - Experion Server and Nodes Acronis backup.
 - Clearing All bending punches and prepare site closure activities.
- MIDOR REFINERY EXPANSION – SYSTEM ENGINEER – HONEYWELL / TECHNIP ENERGIES (Jul. 2021 - Nov. 2021):
 - Pre-commissioning and SAT activities for new units and control panels.
 - Installation, Inspection, QC checks and power up for all DCS

- panels.
- Installation of server machines establish communication between all RTUs and main control.
- Installation of new operator and engineering workstations.
- Installation and operation ESD Aux console panels.
- Punch list recording and planning punches rectifying.
- Field Loops "tie in" to existing system (hardware tie ins).
- Experion PKS application loading and firmware upgrade.
- DCS HMI graphics modifications as per operators' requirements.
- DCS/ESD integration SAT with HIMA.
- RTUs commission and power up.
- Support refinery general shut down and start up.
- F&G SYSTEM MPC TANK FARM – SYSTEM ENGINEER – HONEYWELL:
 - Surveying F&G and ESD system installed and F&G field instruments and flame detectors.
 - Run system inventory too for data collection from servers and stations.
 - Acronis backup for all stations.
- MIDOR REFINERY PROCESS HISTORY PHD – SYSTEM ENGINEER – HONEYWELL (Sep. 2019 - Dec. 2019):
 - HMI graphics design.
 - PHD Client workstation installation.
 - PHD reports design.

Dates : From Feb. 2018 till Aug. 2019

Employer : Sharp Elaraby, Industrial Zone - Egypt

Project : SHARP ELARABY FACTORY

Job title : Maintenance Engineer

Job Description :

- Machine's automation system (PLC Siemens, Omron, Delta, Mitsubishi) engineering tasks (hardware installation, programming, testing, documentation and troubleshooting).
- Calculated and improving MTTR and MTBF of machines.
- Failure and breakdowns analysis (FEMA, Fish bone Analysis, RCA, ...etc.).
- Migrated foam molding machines to work with new production models with 99% availability.
- Designed Electro-Pneumatic Pick and Place Robot on Refrigerator Production Line.
- Designed Fully Automated Lightning System using zelio (Energy Saving).
- Installed and commissioned KINGPOWER metal forming machine.
- Installed and commissioned Hyundai industrial robots on production lines.
- Designed Alarming system for vacuum forming pumps.
- Designed HMI for controlling and monitoring raw materials elevator and line using OMRON HMI.

Dates : From Jul. 2017 till Jan. 2018

Employer : Zimmer Biotech, Cairo

Job title : Service Engineer

- Field of experience** :
- Experienced in field instrumentation and control system design.
 - High experience in Process control systems engineering DCS, PLC, SCADA.
 - Good experience in medium / mega ICSS projects.
 - Good knowledge of international standards IEC, ISA, IEEE.
 - Skills:
 - Safety Manager (Basic).
 - FDM Operation.
 - Engineering tools.
 - Hardware Design.
 - Awards:
 - Bronze Bravo Award - CWEST Power Plant Project.
 - Thanks Bravo Award - NCIC Project FAT - Honeywell.
 - Thanks Bravo Award - NCIC Project Handover to EPC for site Activities - Honeywell.
 - Recognition of Service - 9 Behaviors - Honeywell.