

101461-ICX-18CMS-E-2009
Senior Automation / I&C Engineer

Holds a B. Sc. in Industrial Electronics & Automation Control Engineering and has over 7 years hands-on experience working in Automation / I&C field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 27/06/1987
Gender : Male
Marital Status : Widowed
Residence : Menoufia

EDUCATION

: B. Sc. in Industrial Electronics & Automation Control Engineering, Menoufia University, 2009

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel, Power Point), Internet
: AutoCAD
: PROTEUS "electronic circuit design, analysis and test"
: EAGLE "PCB design"

TRAINING COURSES AND CERTIFICATIONS

: PLC Siemens S7-300 & SCADA "WinCC & WinCC flexible" at The Ministry of Military Production (Dec. 2009).
: 3D Studio Max at The Institute of Information Systems of the Armed Forces (Oct. 2008).
: Trainings at:

- Spinning & Weaving Factory (Shebin El-Koum).
- TOSHIBA ALARABY Factory.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jul. 2017 till now
Employer : Veolia Water Technologies

- Project** : South Helwan Supercritical Power Plant 3x650MW
(Water Systems "Technologies": Ultrafiltration, RO, Demineralization, Wastewater, Oil separating, Sewage treatment, Potable water & Chlorination generation)
- Job title** : Senior Automation, Instrumentation & Control Engineer
- Job Description** :
- Construction scope:
 - Reviewing and working according to submittals, P&ID, hookup drawing, wiring and interconnection diagrams and any reference document related to my work.
 - Installation of filed instruments according to hookup drawings.
 - Supervision on power and control cables termination in PLC panels and filed instruments.
 - Laying and termination of communication cables (Fiber optics, Ethernet & Profibus).
 - Automation scope:
 - PLC programming and SCADA design (operation graphics, trends, alarm log, data log and security facilities).
 - Pre-commissioning Scope:
 - Cable continuity test "Cold test".
 - Termination tests (Visual check for proper termination).
 - Applying SAT for all electrical panels and instruments.
 - Commissioning Scope:
 - Loop Test "Hot test".
 - Instrument calibration (process and analytical instruments).
 - VFDs & soft starters setup.
 - Startup the whole system in manual mode while minimum interlocks considered.
 - Startup systems in automatic mode while interlocks, permissive and sequence applied.
 - Applying function test for all plant systems and equipment.
 - Applying performance test for all plant systems and equipment.
 - Documentation Scope:
 - Preparing MRR "Material receiving report".
 - Preparing IR "Inspection reports".
 - Preparing handing over reports.
 - Punch list closing with client.
 - Communication Scope:
 - Representing my company in meetings with owner, consultant and vendors.
 - Reporting to main contractor and consultant.
- Dates** : From Jan. 2017 till Jul. 2017
- Employer** : Metito Company for Water Treatment
- Projects** :
- Electrical Power Plant:
 - El Burullus Combined Cycle Power Plant 4800MW:
 - Water Systems "Technologies": Ultrafiltration, RO, Demineralization, Wastewater, Oil separating, Sewage treatment, Potable water & Chlorination.
 - A, I&C Responsibilities: Full responsibility.
 - Demineralization Plant:
 - ABU QIR Fertilizers Company Demineralization Station 450 m³/h:
 - Water Systems "Technologies": Demineralization, Chemical

injection.
 ■ A, I&C Responsibilities: Shared with a colleague.

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Dates : From Mar. 2015 till Dec. 2016

Employer : Suido Kiko ME Company for Water Treatment

Projects : Waste Water Treatment Plants:

- Waste water treatment plant of Sudair industrial city 10,000 m³/day:
 - Water Systems "Technologies": Industrial sewage treatment.
 - A, I&C Responsibilities: Full responsibility.
- Waste water treatment plant of Mekhwat 12,500 m³/day:
 - Water Systems "Technologies": MBR.
 - A, I&C Responsibilities: Full responsibility.
- Waste water treatment plant of SAWACO 30 m³/day:
 - Water Systems "Technologies": MBR.
 - A, I&C Responsibilities: Full responsibility.

Job title : Automation, Instrumentation & Control Engineer

- Job Description** : For all above mentioned systems I was responsible for the following:
- Instrumentation design scope:
 - Review contract, specifications & P&ID and use as reference to my design and selections.
 - Prepare instrument list according to P&ID, contract and specifications.
 - Prepare RFQ for instruments and their installation accessories and fittings.
 - Review quotations against our requirements and prepare comparison sheet with technical and commercial recommendations.
 - Prepare submittals of instruments datasheets, hookup drawings, and instrument loop diagrams.
 - Automation design scope:
 - Prepare I/O list according to P&ID, selected instruments, power and control panels interface requirements, third party systems interface requirements according to contract and specifications.
 - Prepare RFQ for PLC components according to I/O list and communication requirements, redundancy requirements, interface protocol requirements.
 - Review quotations against our requirements and prepare comparison sheet with technical and commercial recommendations.
 - Prepare automation architecture drawing according to selected PLC and communication peripherals.
 - PLC programming and SCADA design (operation graphics, trends, alarm log, data log and security facilities).
 - Control design scope:
 - Select and prepare control and instrumentation cables schedule submittal.
 - Select and prepare communication cables list (fiber optics & Ethernet).
 - Design MCC in collaboration with power design engineer to ensure presence and arrangement of interlocks and terminal blocks arrangement to match PLC panels.

Dates : From Sep. 2012 till Feb. 2015

Employer : Metito Company for Water Treatment

- Projects** :
- Electrical Power Plants:
 - West Damietta 500MW Gas Turbine:
 - Water Systems "Technologies": Ultrafiltration, RO, Demineralization, Sewage treatment, Potable water.
 - A, I&C Responsibilities: Shared with a colleague.
 - Banha 500MW Combined Cycle:
 - Water Systems "Technologies": Pre-treatment, Ultrafiltration, Demineralization, Oil separation, Sewage treatment, Potable water.
 - A, I&C Responsibilities: Shared with a colleague.
 - Sidi Krir 750MW Combined Cycle:
 - Water Systems "Technologies": Demineralization, Hypo chlorination production.
 - A, I&C Responsibilities: Shared with a colleague.

- El-Atf 750MW Combined Cycle:
 - Water Systems "Technologies": Pre-treatment, Demineralization, Oil separation, Sewage treatment, Potable water.
 - A, I&C Responsibilities: Shared with a colleague.
- Giza North 2250MW Combined Cycle:
 - Water Systems "Technologies": Pre-treatment, Ultrafiltration, Demineralization, Oil separation, Sewage treatment, Potable water, Chlorination.
 - A, I&C Responsibilities: Full responsibility.
- Domestic Water Plants "Nile Water Clarification":
 - Embaba 200,000 m3/day:
 - Water Systems "Technologies": Lifting station, Clarification, Filtration, pumping station & Chlorination.
 - A, I&C Responsibilities: Shared with a colleague.
- Waste Water Treatment Plants:
 - Crush Factory (Sequential Batch Reactor Plant 1,400 m3/day): Full responsibility A, I&C.
 - Samannoud STP (Sequential Batch Reactor Plant 15,000 m3/day): Full responsibility A, I&C.
 - HIWADIK'S HOTEL (4 x 400 m3/day): Full responsibility A, I&C.
 - Siclam Factory: Full responsibility A, I&C.
- RO Plants:
 - Marrasi (RO Stream 5,000 m3/day): Full responsibility A, I&C.
 - Al Sabah (RO Stream 200 m3/day, Activated carbon Filtrated water stream 200 m3/day): Full responsibility A, I&C.
 - El Fayrouz (RO Stream 750 m3/day): Full responsibility A, I&C.
 - Sidi Barrani (RO Stream 1200 m3/day): Full responsibility A, I&C.
 - Obayied (RO Stream 600 m3/day): Full responsibility A, I&C.
 - SAVOLA (RO & Demineralization Plant 2 x 30 m3/day): Full responsibility A, I&C.

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Dates : From Dec. 2010 till Sep. 2012

Employer : MOTWASET Company for Water & Sewage Treatment

- Projects** :
- Maintenance Project:
 - Service Water for Military Factory-200 36,000 m³/day:
 - Water Systems "Technologies": Lifting station, Clarification, Filtration, pumping station & Chlorination.
 - E&I Responsibilities: Shared with a colleague.
 - Engineering & Construction Projects:
 - Sewage Treatment Station for Elfayrouz Village at North Coast:
 - Water Systems "Technologies": Biological treatment.
 - E, A, I&C Responsibilities: Full Responsibility.
 - Lifting Station for Military factory 81:
 - Water Systems "Technologies": Pumping station.
 - E, A, I&C Responsibilities: Full Responsibility.
 - Lifting Station for CPC Industrial Complex at 6 October City:
 - Water Systems "Technologies": Pumping station.
 - E, A, I&C Responsibilities: Full Responsibility.
 - Lifting Stations Bcharre Region in Lebanon:
 - Water Systems "Technologies": Pumping station, chlorination.
 - E, A, I&C Responsibilities: Full Responsibility.

Job title : Electrical, Automation, Instrumentation & Control Engineer

- Job Description** :
- Maintenance Project:
 - Responsible for Maintenance of electrical panels and machines and instrumentations.
 - Engineering & Construction Projects:
 - Engineering scope:
 - Electrical: Design MCC & MDB panels with their related components.
 - Automation: Design PLC panel. PLC & HMI selection and programming. Applying radio telemetry system for Bcharre project.
 - Instrumentation: selection of instruments and prepare related submittals.
 - Construction:
 - All E, I&C construction works from A-Z.
 - Commissioning scope:
 - All E, I&C commissioning activities from A-Z.

Dates : From Jan. 2010 till Nov. 2010
Employer : NOURTEX Company for Spinning and Dyeing at Sadat City
Project : Spinning and Dyeing Factory
Job title : Electrical Maintenance Engineer
Job Description : Responsible for electrical maintenance of lines of dyeing and chemical treatments of the textile & machines of assembly.

Engineering Skills:

- PLC Programming:
 - Allen Bradley: RSLogix 500 (Micrologix 1200 & 1500), RSLogix 5000 (Controllogix & Compactlogix).
 - Schneider: TwidoSuite (Twido), ZelioSoft 2 (Smart Relay).
 - Mitsubishi: GX WORKS2 (FX3U).
 - FATEK: WinProLadder (FBs Series).
 - Siemens: SIMATIC S7 (S7-400H) (Modifications).
- SCADA & HMI Programs:
 - Allen Bradley: Factory Talk View Studio SE & ME, Panel Builder32, RSVIEW32 (Modifications).
 - Schneider: VejoDesigner.
 - Siemens: WinCC (Modifications).
- Instrumentations:

Familiar with Brands: Endress+Hauser, Rosemount, VEGA, Georg Fisher & Burkert.

 - Analyzers (Sodium, Silica, PH, ORP, Conductivity, Turbidity, dissolved Oxygen and chlorine).
 - Pressure, Flow (Electromagnetic, Ultrasonic, Differential pressure, Vortex, Paddle wheel, Variable Area), Level (Ultrasonic, Radar, Differential pressure, Piezoresistive, Electrode Switch) & Temperature instrumentations.