

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 m<sup>3</sup>/h:
      - Water Systems "Technologies": Demineralization, Chemical

		<ul style="list-style-type: none"> <li>injection. <ul style="list-style-type: none"> <li>▪ A, I&amp;C Responsibilities: Shared with a colleague.</li> </ul> </li> </ul>
<b>Job title</b>	:	Automation, Instrumentation & Control Engineer
<b>Job Description</b>	:	<ul style="list-style-type: none"> <li>• Construction scope: <ul style="list-style-type: none"> <li>- Reviewing and working according to submittals, P&amp;ID, hookup drawing, wiring and interconnection diagrams and any reference document related to my work.</li> <li>- Installation of filed instruments according to hookup drawings.</li> <li>- Supervision on power and control cables termination in PLC panels and filed instruments.</li> <li>- Laying and termination of communication cables (Fiber optics, Ethernet &amp; Profibus).</li> </ul> </li> <li>• Automation scope: <ul style="list-style-type: none"> <li>- PLC programming and SCADA design (operation graphics, trends, alarm log, data log and security facilities).</li> </ul> </li> <li>• Pre-commissioning Scope: <ul style="list-style-type: none"> <li>- Cable continuity test "Cold test".</li> <li>- Termination tests (Visual check for proper termination).</li> <li>- Applying SAT for all electrical panels and instruments.</li> </ul> </li> <li>• Commissioning Scope: <ul style="list-style-type: none"> <li>- Loop Test "Hot test".</li> <li>- Instrument calibration (process and analytical instruments).</li> <li>- VFDs &amp; soft starters setup.</li> <li>- Startup the whole system in manual mode while minimum interlocks considered.</li> <li>- Startup systems in automatic mode while interlocks, permissive and sequence applied.</li> <li>- Applying function test for all plant systems and equipment.</li> <li>- Applying performance test for all plant systems and equipment.</li> </ul> </li> <li>• Documentation Scope: <ul style="list-style-type: none"> <li>- Preparing MRR "Material receiving report".</li> <li>- Preparing IR "Inspection reports".</li> <li>- Preparing handing over reports.</li> <li>- Punch list closing with client.</li> </ul> </li> <li>• Communication Scope: <ul style="list-style-type: none"> <li>- Representing my company in meetings with owner, consultant and vendors.</li> <li>- Reporting to main contractor and consultant.</li> </ul> </li> </ul>
<b>Dates</b>	:	From Mar. 2015 till Dec. 2016
<b>Employer</b>	:	Suido Kiko ME Company for Water Treatment
<b>Projects</b>	:	Waste Water Treatment Plants: <ul style="list-style-type: none"> <li>• Waste water treatment plant of Sudair industrial city 10,000 m<sup>3</sup>/day: <ul style="list-style-type: none"> <li>- Water Systems "Technologies": Industrial sewage treatment.</li> <li>- A, I&amp;C Responsibilities: Full responsibility.</li> </ul> </li> <li>• Waste water treatment plant of Mekhwat 12,500 m<sup>3</sup>/day: <ul style="list-style-type: none"> <li>- Water Systems "Technologies": MBR.</li> <li>- A, I&amp;C Responsibilities: Full responsibility.</li> </ul> </li> <li>• Waste water treatment plant of SAWACO 30 m<sup>3</sup>/day: <ul style="list-style-type: none"> <li>- Water Systems "Technologies": MBR.</li> <li>- A, I&amp;C Responsibilities: Full responsibility.</li> </ul> </li> </ul>
<b>Job title</b>	:	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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  - Representing my company in meetings with owner, consultant and vendors.
  - Reporting to main contractor and consultant.

**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 m<sup>3</sup>/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).
  - Misubishi: 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.