Holds a B. Sc. in Industrial Electronics & Control Engineering and has over 9 years hands-on experience working in I&C field.

PERSONAL DATA

Nationality	**:**	Egyptian
Birth Date	**:**	14/12/1984
Gender	**:**	Male
Marital Status	**:**	Married
Residence	**:**	Alexandria

EDUCATION

:   B. Sc. in Industrial Electronics & Control Engineering, Menoufia University, 2007

LANGUAGES

Arabic	**:**	Native Language
English	**:**	Good

COMPUTER SKILLS

:   Windows, MS Office (Word, Excel, Access, Power Point), Internet

:   AutoCAD

:   Oracle

:   Automation Studio

:   Matlab (Simulink)

:   Engineering S/W:
- Siemens Simatic Manager – Simatic WinCC – Simatic WinCC Flexible – Simatic TIA – Simatic PDM
- GE Fanuc Proficy Machine Edition
- Lamtec Burner FMS4 Control Remote software
- Delta HMI Screen Editor S/W
- JSP Co. HART windows Configurator
- LAMTEC O2/CO Analyzer LT_Remote Display
- Eurotherm controller iTools configuration and monitoring software

TRAINING COURSES AND CERTIFICATIONS

:   SIEMENS PCS 7 DCS V7.1 Configuration and Programming of OS Server, Clients and AS panels, SIEMENS, Alexandria, Egypt (Oct. 2017).

- **:** Maintenance Planning and Scheduling Concept and Techniques, RES Global, Alexandria, Egypt (Nov. 2017):
  - Types of maintenance (Corrective, Preventive, and Predictive) and the steps of its planning and execution to help improving the process and equipment reliability.
  - Reliability of equipment and process and its effect on process availability and business success.
- **:** WOODWARD 505 GOVERNOR, Target Engineering, Alexandria, Egypt (Jan. 2017):
  - HW/SW Configuration, and parameterizing controller on back pressure steam turbines.
  - Control Modes of operation and Communication with Woodward 505.
- **:** Training in Alexandria Fiber Company (Aug./Sep. 2007): overview of instrumentations, control system maintenance.
- **:** Training in Egyptian Iron & Steel Company in Helwan (Jan. 2007):
  - Maintenance of all types of analog instrumentation.
  - PID control training and simulation.
- **:** Training in Alexandria Electricity Distribution Company (Aug. 2005): overview of electricity distribution and transformers.
- **:** SIEMENS representatives, internal training (Aug. 2013): Simatic PCS7 DCS V7.0 Programming overview.
- **:** Certification from Micro Star Center in Menoufia (Oct. 2005): Microchip Microcontroller PIC16F series programming.
- **:** Certification from Compusystem Center in Cairo (Aug. 2006):
  - ABB AC31 PLC programming.
  - GE Fanuc SCADA Software "iFix" programming.
  - ABB DCS AC800M Software "Control Builder" programming.
- **:** PMI-PMP Certificate Preparation Course, Egyptian Engineers Syndicate (Aug. 2015).
- **:** SHIFT Training and Consultancy, Cairo, Egypt (Jun. 2014):
  - Communication Skills and Time Management.
  - Panoramic financial and capacity planning.
  - Creative brain storming.
- **:** Siemens, Cairo, Egypt (Jul. 2011): S7-300/400 PLCs Programming and configuration.
- **:** Excellence Consultants Ltd, Giza, Egypt (Jun. 2011): Leadership, Work teams and Time Management.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	**:**	From Aug. 2015 till now
Employer	**:**	Nile Sugar Company - ORASCOM Holdings, Cairo-Alex Desert Road, Egypt
Job titles	**:**	Senior I&C Engineer / Instrument Department Shift Leader

Dates	**:**	From May 2009 till Aug. 2015
Employer	**:**	Nile Sugar Company - ORASCOM Holdings, Cairo-Alex Desert Road, Egypt
Job title	**:**	I&C Engineer

Field of experience : • Career Highlights:
  - Assisting Instrument Department Manager in preparing the department yearly budget and planning routine shutdown maintenance.
  - Monitoring and controlling Budget Performance, execution, POs, PRs, and inventory materials/spare parts using Oracle System modules.
  - Communicating with suppliers, contractors and relevant authorities.
  - Leading the instrumentation maintenance team during factory complete and partial shutdown in implementing the Annual Maintenance Plans (AMP).
  - Providing Technical Support to the instrument maintenance team during the factory operation to help troubleshoot problems and faults.
  - Improving the Process Performance through Testing, maintaining and modifying existing Automation systems and some tuning functions of PID controllers.
  - Using field PG/PC locally or Engineering Station PC remotely from DCS in communicating with, calibrating, diagnosing, and configuring the smart field instrumentations and control valves using Siemens Process Device Management Software (PDM).
  - Tracing PLC/DCS automation system faults with Siemens Simatic Manager Programming Software.
  - Programming and Configuring PLCS like SIEMENS S7-300 / S7-400 and GE Fanuc Versamax PLCs.
  - Creating hourly, daily, monthly and seasonal logs and reports during factory operation or maintenance periods.
  - Participating in data collecting and building CMMS system at Nile Sugar using Oracle Enterprise Asset Management Module eAM module.

  • Work Experience:
  - A member of the team who supervised the installations, commissioning and start-up of the Nile Sugar Factory instrumentations and control systems for stations such as (Lime Kilns, Main Process Building, Beet Pulp Dryer...).
  - A main responsible for supervising erection, commissioning, and TOT of the factory power Plant including two 80 ton/hrs. steam boilers, two 8 MW back pressure steam turbines and their auxiliaries (deaerator, water and fuel storage tanks, natural gas lines, piping, steam reduction station, feed water pumps, cooling tower, etc.…. (Manufacturer is EKOL from Czech Rep.).
  - Experienced in Installation, connections and testing all of SIEMENS Simatic PCS7 components and tools like (Servers, Engineering PCs, Clients, Automation Systems (AS CPU 416 & 417), Remote DCS I/O ET200 modules, Analog and Digital I/O modules, DP/PA couplers, Fiber Optical link modules (OLM), Scalances, Profibus Repeater….).
  - Familiar with Ethernet and Profibus networking and communication through electrical or Optical medium.
  - Experienced in Installation, connections and testing SIEMENS SCADA system using S7-300 (CPU 315) and S7-400 (CPU 415) PLCs with WinCC software on PCs and WinCC flexible software on HMI panels.

- Participating in programming and configuring GE Fanuc Versamax PLC connected with Delta touch panel used in controlling the Boiler De-aerator Drum.
- Familiar with Natural gas and light oil Burners in the ignition system in boilers, kilns, gases flares and dryers.
- Participating with Boiler Experts in adjusting the air/fuel ratio of the burners through LAMTEC Firing Management Controller (FMS).
- Participating with Turbine Experts in Parameterizing Woodward 505 Digital Turbine Control Governor.
- Participating in the maintenance and calibration of the field instruments:
  - Pressure, level, flow, and temperature transmitters and gauges.
  - PH, Conductivity, and density (brix) transmitters.
  - Analyzers of CO, CO_2 & O_2 gases also analyzer of defining white sugar color degree.
  - Vibration, speed transmitters, Proximity sensors, limit switches.
  - Pneumatic and motorized control Valves.
  - Weighing scales.
- Familiar with the instruments supporting the milliAmpere, and Profibus PA protocols.
- Familiar with hart field communicator EMERSON 375 and 475.
- Brands e.g.: Siemens, Rosemount, Endress & Hauser, Berthold, Lamtec, Rockwell, Burkert, Asco Jocomatic, Wika, Vega, Kubler, Beckhoff, Hach Lang, SWAN…..

- Achievements:
  - Upgrading old turbine and boiler SIEMENS 277 HMI operator panel programmed by WinCC Flexible 2008 to new KP700 comfort panel using TIA V14.
  - Programming and modifying the Burners control air/fuel (N.G) ratio working curve on Lamtec FMS Controller according to natural gas consumption, air flow and O_2 percentage in flue gases.
  - Building a calibration panel in instrument department Workshop containing 24VDC, 220VAC for testing on/off valves also 0/4-20 mA, thermocouple and RTD Measuring Test using Invensys Eurotherm controller 3508.