Holds a B. Sc. in Industrial Electronics & Automatic Control Engineering and has over 7 years of experience in designing, programming, troubleshooting, testing and commissioning of automation and control systems in Water Treatment Plants – WTP, Waste Water Treatment Plants – WWTP, Power Management and Control Systems – PMCS, and different industrial processes.

PERSONAL DATA

Nationality	**:**	Egyptian
Birth Date	**:**	18/08/1990
Gender	**:**	Male
Marital Status	**:**	Single
Residence	**:**	Cairo

EDUCATION

: B. Sc. in Industrial Electronics & Automatic Control Engineering, Menoufia University, 2012

LANGUAGES

Arabic	**:**	Native Language
English	**:**	Very Good
French	**:**	Fair

COMPUTER SKILLS

: Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

: Lockout/Tagout (LOTO) Safety Program (Sep. 2018), Abu Dhabi International Airport, Abu Dhabi.

: EcoStruxure Hybrid DCS 2018 Configuration Training (Jun. 2018), Schneider Carros, France.

: Certificate Automation System, SIEMENS (Feb. 2012).

: Trainings at:
- EGPC (Egyptian General Petroleum Corporation, Maadi), Jul./Aug. 2010: How to deal with oracle database.
- Toshiba Alaraby (Benha), from Dec. 2011 till Jul. 2012:
  - How to save power in cooling tower by:
    - Control technique (PLC program).
    - Variable speed drive.
  - How to design the system in HMI by using vijeo designer software.

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From Jan. 2018 till now
Employer	:	Engineering System Technology – SysTech – Alliance Integration Partner with Schneider Electric
Job title	:	Senior Automation Engineer
Job Description	:	• Collaborating closely with other team members to plan, design, and develop robust control system solutions.

- Designing, upgrading, programming, commissioning and start-up of automation system.
- Designing & Building control panels.
- Preparing technical specifications, datasheets, Quantitative price list & Bill of material.
- Ensuring that all control system components (Panel Design & Fabrication, PLC Programming, Sequence of Operation, and SCADA System) are produced to meet project specification and schedule.
- Reviewing/Preparing As-Built Drawing, System architecture, wiring diagram, Interconnection sheets and Operation & Maintenance guide.
- Preparing, Attending Kick-off Meeting.

Dates	:	From May 2014 till Dec. 2017
Employer	:	Engineering System Technology – SysTech – Alliance Integration Partner with Schneider Electric
Job title	:	Automation Engineer
Job Description	:	• Configuring, commissioning, and startup of communication systems using latest industrial protocols such as Modbus RTU, Ethernet TCP/IP.

- Developing, and Upgrading PLC codes using standard programming language.
- Building HMI Visualization System.
- Performing Factory Acceptance Test (FAT), Site Acceptance Test (SAT) and Preparing simulations, test scenario, and test documentation.
- Reviewing P&ID, Single Line Diagram, and project documents for extracting IO List and understanding the control philosophy.
- Preparing, IO List, System architecture, wiring diagram, interconnection sheet, As-Built Drawing, and Operation & Maintenance guide.
- Checking wiring loop.
- Troubleshooting control systems.

Projects:

- Mansoura 01 Filtration Plant (New Capital City - Egypt) (Aug. 2021 – Present):
  - Control architecture and system design.
  - Programming (PLC-M340 with extension rack).
  - Programming HMI using Vijeo Designer V6.2 with high professional graphics.
- El-Ekhiwa - WWTP (Sharja - Egypt) (Aug. 2021 – Present):
  - Control architecture and system design.
  - Programming (PLC-M340).
  - Programming HMI using Vijeo Designer V6.2 with high professional graphics.

- El-Marashda - STP (Qena - Egypt) (Sep. 2020 – Present):
    - Control architecture and system design.
    - Programming (PLC-M340).
    - Programming HMI using Vijeo Designer V6.2 with high professional graphics.
- Toshka Pumping Station (Aswan - Egypt) (Sep. 2020 – Present):
    - Control architecture and system design.
    - Programming (PLC-M580 HSBY) for 87 Pump Stations.
    - Programming HMI using Vijeo Designer V6.2 with high professional graphics.
- Cairo International Airport (Cairo - Egypt) (Jun. 2020 – Oct. 2020):
    - Control architecture and system design.
    - Programming (PLC-M580) to Control 7 Variable Frequency DrivesVFD (ATV630) and Chiller Pumps.
    - Programming and configuring VFD using Somove software.
    - Programming HMI using Vijeo Designer V6.2 with high professional graphics.
- Abu Dhabi International Airport (Abu Dhabi - UAE) (Sep. 2016 – Jan. 2020):
    - Control architecture and system design.
    - Preparing wiring diagram, IO list, mapping and communication layout sheets.
    - Programming 39 Data concentrator panels (PLC-M340) to control LVSWGR and collect measurement data from (Modbus serial Powermeters, Micrologic, Power Factor Correction PFC, Automatic Transfer Switch ATS, Uninterruptable Power Supply UPS, Earth Fault Relays EFR, Temperature Transformer Unit TTM, Protection Relay SEPAM, and generators. also configuring 219 Remote IO panel (OTB) to collect 800 SMDBs status using (UnityPro and Advantys).
    - Configuring all communication devices (FiberOptic switches-EGX100-EGX150- Powermeters-ION meter).
    - Programming HMI using Vijeo Designer V6.1 with high professional graphics.
    - Testing and commissioning procedures.
- Egyptian Satellite ATS Control System (Cairo - Egypt) (Jan. 2018 – Aug. 2018):
    - Programming PLC (M580 Hot/standby System with Drops X80) using (UnityPro).
    - Programming HMI using Vijeo Designer V6.2 with high professional graphics.
    - FAT, SAT and Signal test for Generator and MDBs control panels.
    - Tracing and Troubleshooting Modbus RS485 serial communication loop Devices (Power meters).
    - Commissioning and startup PMCS (Power Management Control System).
    - Preparing wiring diagram, IO list, mapping and communication layout sheets.
- Cairo International Airport Terminal Block II (Cairo - Egypt) (Jan. 2015 – Aug. 2016):
    - Programming PLC (M340-Perimuim-Twido) using (UnityPro-Twido suite).
    - FAT, SAT and Signal test for SMDBs and MDBs control panels.

- - Tracing and Troubleshooting Modbus RS485 serial communication loop Devices (Power meters – Protection Relays SEPAMs – APC UPSs).
  - Commissioning and startup for PMCS (Power Management Control System).
  - Integrating SCADA system with BMS.
  - Preparing wiring diagram, IO list, mapping and communication layout sheets.
- Foustat Water Treatment Plant at Dar Elsalam (Cairo – Egypt) (May 2014 – May 2016):
  - Preparing wiring diagram, IO list, mapping, interconnection, and communication layout sheets.
  - Programming PLC (M340- Twido) using (UnityPro-Twido suite).
  - Programming HMI using Vijeo Designer with high professional graphics.
  - Reviewing P&ID to extract all equipment to be shown in SCADA.
  - FAT, SAT and Signal test for control panels.
  - Tracing and Troubleshooting Modbus RS485 serial communication loop Devices (Power meters – ABB Protection Relays).
  - Commissioning and startup for process control.
- Storage Silos System at El-Dekhila Port (Alex - Egypt) (Jan. 2015 – Oct. 2015):
  - Preparing wiring diagram and IO list sheets.
  - Programming PLC (Twido) using (Twido suite).
  - Programming text display HMI using Vijeo Lite.
  - Designing MIMC display.
  - FAT, SAT and Signal test for control panel.
  - Commissioning and startup for process control.