Holds a B. Sc. in Electrical Engineering (Control and Industrial Electronics) and a Diploma in Instrumentation. Has over 8 years hands-on experience, including 2 years as I&C Systems Engineer and 6 years as Technician, working in I&C Maintenance, Engineering, Construction, Commissioning and Start-up in fertilizers industries.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	05/06/1992
Gender	:	Male
Marital Status	:	Single
Residence	:	Menoufia

EDUCATION

:	B. Sc. in Electrical Engineering (Control and Industrial Electronics), Menoufia University, 2016
:	Diploma in Instrumentation, Banha Institute for Electronics, 2011

LANGUAGES

Arabic	:	Native Language
English	:	Very Good

COMPUTER SKILLS

:	Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- **:** Training by Krohne Academy (2017):
  - Basics of Explosion Protection.
  - Functional Safety (SIL).
  - Hazard and risk assessment.
- **:** Training in Smart Village (Business Entrepreneurship) (2016).
- **:** Training in Bayer Foods Group (Control system) (2016).
- **:** Training by Toshiba Elaraby (Industrial quality) (2016).
- **:** Training in Egyptian Space Agency (Remote sensing) (2015).
- **:** Training in El Gwharah Factory for Ceramics and Porcelaintiles (Automation) (2014).

CHRONOLOGICAL EXPERIENCE RECORD

Dates	:	From Aug. 2016 till now
Employer	:	Evergrow for specialized fertilizers
Job title	:	I&C Systems Engineer (Maintenance & Commissioning Engineer)
Job Description	:	• Leading team of five Instrument Technicians.

- Leading team of five Instrument Technicians.
- One of three Instrumentation Engineers responsible about 6 factories, 3 are working and 3 under construction.
- Troubleshooting and maintaining Siemens SCADA system (PLCs S7 400, S7 300, PCs stations, ET200 distribution modules).
- Troubleshooting of control network (HART, profibus, profinet, Ethernet).
- Planning required upgrade for instruments to achieve production quality and cost minimizing.
- Maintenance and calibration varied types of Transmitter (Flowmeter - pressure - level - temperature - analysis).
- Calibration and adjusting the (electro-pneumatic & motorize) positioners.
- Troubleshooting and maintenance of package boiler control& monitoring elements.
- Pursuance FAT & SAT & SIT works.
- Conversant with Preparation, Verification, Identification and Implementation of the technical queries in loop diagrams, datasheets, instrument index, I/O Schedules, interconnection diagram, Marshaling cabinet & Junction box wiring diagram, P&ID's, Hook- up diagrams for control system.
- Preparation, Execution and Supervision of Installation of field Instruments on Construction site.

Dates	:	From Jun. 2010 till Aug. 2016
Job title	:	Freelancer as Technical Support
Job Description	:	• Design and implementation control panels.

- Design and implementation control panels.
- Programming and editing PLCs programs.
- Calibration and installing of field instruments.
- Troubleshooting and maintenance for varied types of machines at sites of the clients.
- Development and modernization for machines control system.

Field of experience :

- Automation:
  - Plc (install & design discrete, analog programs) by (Siemens S7 400 & 300 & S7 200 &1200 & Et200 family) (Schneider Nano & Modicon Tsx & Premium & Quantum) (ls & delta & idec) compact plc.
  - SCADA Pc stations and HMI by (Win cc professional TIA portal) Programming, Configuration and Modification.
  - Industrial Networks (HART & profibus & Modbus & profinet & RS 232 & RS 422 & RS 485).
  - Design PID Controller systems.
  - Design Linear & nonlinear controller systems.
  - VFD AC drive & soft starter (altivar & Siemens & ls & danfoss & yaskawa & delta & ABB…etc.).
  - Install and design Classic control circuits.

- Install & design light Power Electrical circuits.
- Instrumentation:
  - HART Communicator Calibration.
  - Loops test.
  - Install & calibration & commissioning & troubleshooting wide range from Instrumentation like:
    - ❖ Flowmeter (smart transmitter - dp - mechanical -switches - local).
    - ❖ Level (smart transmitter - dp - switches - sight glass).
    - ❖ Pressure (smart transmitter - gauge - switches - dp).
    - ❖ Temperature (smart transmitter - gauge - switches - RTD - Thermocouple).
    - ❖ Valves (shut off - controller) & electro-pneumatic & motorize positioners.
    - ❖ Analyzers (PH - co2 - TDS).
    - ❖ Load cells.
  - Understanding and practice ATEX regulations and instructions for different hazardous areas and instruments.
  - Gas Turbine (online course).
  - Steam Turbine (online course).
  - Compressors (online course).
  - Fire & gas system.
  - Heat tracing systems (Pentair).
  - Various types of sensors (proximity - photocell - ultrasonic - switches - hall sensor).
- Commissioning:
  - FAT tests & SAT tests & SIT tests.
  - Installation, testing and commissioning SCADA, Marshaling, RTU Units.
  - I/Os test & Function tests & Open / Closed loops tests.
  - Instrumentation construction activities like calibration testing, Installation, loop checking.
  - Maintenance, construction, inspection and commissioning experience.
  - Excellent IT experience. Utilize all common and specific software in order to achieve best results. In addition to wide experience in Computer maintenance for software and Hardware.
  - Experienced in Health and Safety in order to ensure compliance with all Safety policies and procedures.
  - Test & Verify the ESD button for Integrity of safe Operation loop drawing & specification sheets Creation of Field Instruments.
  - Using the instrument index and checking with P&ID & Hook up drawing & Loop check from DCS Using hook-up drawings.
  - Knowledge of Hazardous area, zone, gas group and protection type. Intrinsic safety principal and intrinsic safe equipment.
  - SIS & SIF & SIL tests.
  - Hazard and Operability analysis.
- Electronics:
  - Microcontroller.
  - Embedded computer (Raspberry pi).

- Electronics circuits (design & maintenance).
- Matlab (images processing).
- C++ Computer language.
- Electronic programs (proteus - eagle - multisim - altuim).