

Holds a B. Sc. in Electrical Power & Machines Engineering and has about 5 years hands-on experience working in automation field.

## PERSONAL DATA

Nationality : Egyptian  
Birth Date : 08/07/1990  
Gender : Male  
Marital Status : Single  
Residence : Cairo

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Cairo University, 2012

## LANGUAGES

Arabic : Native Language  
English : Fluent

## COMPUTER SKILLS

: Windows, MS Office, Internet

## TRAINING COURSES AND CERTIFICATIONS

: 1600 Hp DC drives (SCR) IDM & Rosshill.  
: Generator control modules ACM – Omron.  
: 1600 Hp AC drives (VFD) – ABB.  
: Data acquisition system DAQ–TOTCO / NOV.  
: PLC - ABB / AC500-Codesys software.  
: PLC - Siemens S7-300 Simatic software.  
: PLC - Siemens S7-1200 TIA software.  
: PLC - Siemens LOGO.  
: PLC - S7200 Microwin software.  
: Stepper motor control Drives.  
: HMI - Siemens KTP400 TIA software.  
: SCADA about WINCC software at Jelecom.  
: SCADA about IFIX software.  
: Weight controllers & Temperature controllers & PID controller.

- : Festo software – Pneumatic design.
- : Microcontroller PIC & Micro C language & Proteus simulation.
- : Electrical distribution & AutoCAD 2D at Cairo University.
- : Industrial security at Elswedy cables & Human safety from HV utilization.
- : Orcad design & Matlab Simulink & Visual Basic.
- : Mechanical power assembly.
- : Project Management course at AUC.
- : Financials and market share course at Cairo University.
- : Internships:
  - Maintenance and operation, Med Star for plastic industry (Aug. 2011).
  - Power system and generation, Energy Center of Egypt (Jun. 2011).
  - High voltage protection, Egemac transformers and switchgears (Jul. 2010).
  - Low voltage cables manufacturing, Elswedy cables IEC (Jul. 2009).
  - Medium voltage cables manufacturing, Elswedy cables EGYTECH (Jul. 2008).

## CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Jun. 2014 till now
- Employer** : EDC Egyptian Drilling Company - MAERSK
- Job title** : Electrical & Automation Engineer
- Job Description** :
  - Responsible for troubleshooting and installation PLCs, HMI and SCADA.
  - Responsible for troubleshooting and installation Inverters, AC drives, DC drives.
  - Commissioning and test on both ACM and ECM of generators.
  - Responsible for troubleshooting and installation pneumatic, hydraulic.
  - Applying CM, PM maintenance schedule on equipments and protection circuits.
  - Dealing with brands: Siemens, Omron, ABB, Caterpillar, Schneider and Allen Bradley.
- Dates** : From Jun. 2012 till Jun. 2014
- Employer** : HI-TEK Engineering
- Job title** : Automation Designer & Field Engineer
- Job Description** :
  - Responsible for full electrical design of automatic filling and packaging production lines.
  - PLC, HMI, SCADA, Inverters and Microcontroller programming.
  - Pneumatic design with FESTO and fully air control production lines.
  - Electrical developer for filling and packaging machines with Solid Works.
  - Responsible for customer service in maintenance and modifications.
- Dates** : May 2012
- Project** : Biogas system to feed farms electrical load
- Job title** : Project Designer (Freelancer)

**Dates** : Apr. 2012  
**Project** : Garbage recycling with renewable energy  
**Job title** : Project Researcher (Freelancer)

Achievements:

- Design and implement static var compensator TSC-TCR / ABB / 3 MVAR / 600v.
- Design and implement a complete electronic governor by PLC S7-1200 on 3512 CAT generator.
- Design and implement a complete voltage regulator by PLC S7-1200 on 3406 CAT generator.
- Automation Designer for L'Oreal and Nestle production lines besides being Industrial solver for their electromechanical problems.
- Inline volumetric liquid filler machine with capacity reaches to 6000 bottle per hour.
- Powder form fill and seal machine with accuracy plus or negative 0.25 %.
- 1st rank in research and development competition sponsored by Cairo University - Smart fully independent electric car.
- Top five of human resources simulation - SPE committee.