

# 101504-ELE-CD-E-2016

## Electromechanical Installation Engineer

Holds a B. Sc. in Electrical Power & Control Engineering and has over 4 years hands-on experience working in construction and design. Has background in power systems, automation and controls. In-depth understanding of control and power-delivery systems. Experienced in developing technical studies, investigations, tendering and proposal.

### PERSONAL DATA

Nationality : Egyptian  
Gender : Male  
Residence : Shoubra, Cairo

### EDUCATION

: B. Sc. in Electrical Power & Control Engineering, Cairo University, 2016  
: Secondary Education: TAREK IBN ZIAD Language School, 2011

### LANGUAGES

Arabic : Native Language  
English : Excellent

### COMPUTER SKILLS

: Windows, MS Office, Internet  
: AutoCAD  
: PLCs (OMRON – ZELIO – SOMACHINE – S7)  
: Design programs (E-Design – EPLAN - ETAP – ECODIAL – AUTOMATION STUDIO – EKTS – QELECTROTECH – DIALUX)  
: Arduino

### CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Apr. 2020 till now  
**Employer** : Thales RCS France toll equipment  
**Job title** : Electromechanical Installation Engineer  
**Job Description** : Installation of electro-mechanical equipment ticket fare collection in metro stations.

**Dates** : From Feb. 2018 till Mar. 2020  
**Employer** : SYSTEM TECHNIQUE for water management

- Projects** :
- Seashell Compound - North Coast:
    - Installation of dancing fountains (Kasco Marine) products for three lakes in the compound.
    - Proposal, Design the classic control drawings, execution and installation of electrical panels for the fountains.
  - Elsheikh Zaid Central Park:
    - Installation of dancing fountains (Kasco Marine) products.
    - Proposal, Design the classic control drawings, execution and installation of electrical panels for the fountains.
  - Obegi Chemical Factory: Design all As-built drawing for the water station installed in their including (plc wiring – cable routing – cable tray routing – classic control drawings).
  - Suez Canal:
    - Proposal, Design the drawings, execution and installation of electrical panels for the station including (PLC – classic control – AC drives).
    - Design and execution of all shop drawings for the containerized station including (cables sizing and routing – cable tray sizing and routing – lighting – power).
  - Elgalala Resort: Installation of all electromechanical works of swimming pools and equipment room including (sizing of lighting cables – infrastructure for cable burring – sizing and routing of pumps electrical cables in equipment room – sizing and routing of cable trays in equipment room – design of all shop drawings – installation of all electromechanical works – supervision for installation of earthing system).

**Job title** : Electrical Project & Automation Engineer

- Job Description** :
- Design and Installation of electrical works of water stations (PLC – classic control – automation - sensors – cables installation – cable trays installation – shop drawings).
  - Design, install and maintain electrical panels (power – control – PLC) as a panel builder for Schneider Electric.
  - Design, Installation and Control of dancing fountains (KASCO MARINE) products.
  - Installation of mechanical and electrical work swimming pools (Electromechanical Engineer).

**Dates** : From Dec. 2017 till Feb. 2018

**Employer** : OTAK for trading and contracting

- Projects** :
- Cairo Festival City: Installation of earthing system (LV – MV – Low current)
  - Up Town Cairo Compound: Installation of earthing system (LV – Low current Lightning rods)
  - Porto Cairo Mall: Installation of earthing system (LV – MV – Low current)

**Job title** : Electrical Site Engineer

**Job Description** : Design and installation of EARTHING systems (Power – Light current).

**Dates** : From Jan. 2017 till Dec. 2017

**Employer** : CONCRETE-PLUS for engineering and contracting

- Project** : Seashell Compound - North Coast:
- Design shop drawings for Villas (lighting – power (sockets) – light current (intercom – TV – telephone)).
  - Installation of all the above electrical system mentioned above.
- Job title** : Electrical Site Engineer
- Job Description** :
- Preparation of electrical shop drawings.
  - Design and Installation of electrical systems (Power – Light current).
  - Maintenance of electrical systems (Power – Light current).
- Field of experience** :
- Independently prepared and modified drawings, specs, calculations and graphs.
  - Improved methods for measurement, documentation and work flow management.
  - Created electrical schematics using AutoCAD Electrical Toolset.
  - Rendered technical drawings and electrical systems specifications exceeding company standards.
  - Evaluated installed electrical equipment and systems to isolate faults and implement corrective actions.
  - Documented design using CAD drawings and schematics.
  - Designed and approved power distribution requirements for electrical facility construction.
  - Created, aligned and optimized electrical instrumentation and testing equipment.
  - Performed in-depth electrical acceptance testing of completed hardware, including continuity and high-potential isolation testing.
  - Communicated with engineers and customers to discuss potential and existing engineering projects.
  - Implemented and approved design control procedures for electrical development in accordance with regulatory guidelines.
  - Identified specific cables, connectors, fuses, circuit breakers and other electrical devices required for installation.
  - Monitored installation and operations to consistently meet rigorous customer requirements.
  - Wrote protocols, qualification documents, test plans and test reports for quality assurance purposes.
  - Used electrical formulas to calculate current loads and short circuit currents.
  - Designed and performed tests to determine whether new products and systems meet standards.
  - Performed load calculation for sizing wire and circuit protection.
  - Prepared technical documentation for operation, troubleshooting and maintenance of industrial systems.
  - Interpreted technical drawings and design specifications to visualize final product.
  - Inspected completed installations to observe operations and verify conformance to design and equipment specifications.
  - Troubleshoot electrical equipment problems such as electro-panels and sensors.