

# Hossam Tarek Ismail

## Electrical Engineer

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*My Contact  
Details*

**Personal Profile** Focused Electrical Engineer with 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.

**Career Summary** 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.

## Work Experience

*My Recent  
Job* ☺

**[1/10/2019]**

**[Electro-mechanical engineer]**

**[SYSTEM TECHNIQUE for water management]**

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).

**[1/7/2019]**

**[Electromechanical installations engineer]**

**[BEAM For Elevators and Oscillators]**

Design, Installation and Maintenance of electrical and mechanical works of elevators.

**[6/2/2018]**

**[Electrical project & Automation engineer]**

**[SYSTEM TECHNIQUE for water management]**

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).

**[6/12/2017 – 5/2/2018]**  
**[Electrical site engineer]**  
**[OTAK for trading and contracting]**  
Design and installation of EARTHING systems (Power – Light current).

**[1/1/2017 – 5/12/2017]**  
**[Electrical site engineer]**  
**[CONCRETE-PLUS for engineering and contracting]**  
Preparation of electrical shop drawings.  
Design and Installation of electrical systems (Power – Light current).  
Maintenance of electrical systems (Power – Light current).

**Education** **[2011 - 2016]** **[Student]**  
**[Faculty of engineering – Cairo university]**  
Bachelor degree in electrical power and control engineering

**[1998 - 2011]** **[Student]**  
**[TAREK IBN ZIAD Language school]**  
THANWYA AMMA

**Skills and Achievements** **Engineering skills & programmes:**  
Microsoft office.  
AutoCAD .  
PLCs (OMRON – ZELIO – SOMACHINE – S7).  
Design programmes (E-Design – EPLAN - ETAP – ECDIAL – AUTOMATION STUDIO – EKTS – DELECTROTECH – DIALUX).  
Arduino.

**Interests** Hard worker.  
Creative.  
Flexible /Adaptive.  
Sociable.  
Team Player.  
Self-confidence.  
Self learning.  
Leadership.

**Languages** **Arabic**  
Mother tongue  
**English**  
excellent in writing and speaking.

**Projects reference list:**

<b>Employer</b>	<b>Project</b>	<b>Job Description</b>
<b>Concrete plus</b>	<b>Seashell compound north coast</b>	- Design shop drawings for Villas (lighting – power (sockets) – light current (intercom – TV – telephone)). - installation of all the above electrical system mentioned above.
<b>Otak</b>	<b>Cairo festival city</b>	- installation of earthing system (LV – MV – Low current ).
	<b>Up town Cairo compound</b>	- installation of earthing system (LV – Low current Lightning rods).
	<b>Porto Cairo Mall</b>	- installation of earthing system (LV – MV – Low current ).
<b>System Technique</b>	<b>Seashell compound north coast</b>	- 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.
	<b>Elsheikh Zaid central park</b>	- Installation of dancing fountains (Kasco Marine) products. - Proposal, Design the classic control drawings, execution and installation of electrical panels for the fountains.
	<b>Obegi chemical factory</b>	- Design all As-built drawing for the water station installed in their including ( plc wiring – cable routing – cable tray routing – classic control drawings )
	<b>Suez Canal</b>	- 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 ).
	<b>Elgalala resort</b>	- 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).
<b>BEAM elevators</b>		- Installation of all mechanical and electrical works for elevators