101668-ELE-CDES-E-2012 Senior Implementation Electrical Engineer (Data Center Engineer)

Holds B. Sc. and M. Sc. in Electrical Engineering and has about 9 years hands-on experience working in distribution systems design as well as in the implementation, commissioning and testing of HV switchyard equipment.

PERSONAL DATA

Nationality	:	Egyptian
Birth Date	:	18/07/1989
Gender	:	Male
Residence	:	Giza, Cairo

EDUCATION

- : B. Sc. in Electrical Engineering, Assiut University, 2012
- : M. Sc. in Electrical Engineering, Assiut University, 2018

LANGUAGES

Arabic	:	Native Language
English	:	Very Good
German	:	Basics

COMPUTER SKILLS

- : Windows, MS Office, Internet
- : MATLAB & Simulink, C, C++, C#, AutoCAD, GAMS Software, PLC & SCADA, ETAP, REVIT, HOMER Energy
- : RetScreen Expert, LabVIEW, PVsyst, Schneider Ecodial, Siemens PSS/E, Python, PSCAD Software
- : System Advisor Model (SAM), PVSOL, EMTP-ATP, PowerFactory DIgSILENT

TRAINING COURSES AND CERTIFICATIONS

- : Industrial PLC Applications (Oct. 2011 Dec. 2011).
- : Power System Protection and Design of the Digital Relay (Jul. 2012 Sep. 2012).
- : Electrical Power Systems Distribution including Light Current (Nov. 2012 Jan. 2013).
- : Supervisory Control and Data Acquisition (SCADA) and Distributed Control System (DCS) from Alstom Power (Mar. 2013 Aug. 2013).
- GSM (Global System Mobile) (Oct. 2013 Dec. 2013).

- : Microcontroller Applications (Mar. 2014 May 2014).
- : Internships at:
 - Middle Egypt Electricity Distribution Company (Jul. 2011 Sep. 2011).
 - Assiut Oil Refining Company (Aug. 2010 Oct. 2010).
 - Mobiserve for Technical and Telecom Services (Aug. 2009 Oct. 2009).
 - CEMEX (Cement Manufacturing Process) Summer Training Academy (Jul. 2008 Oct. 2008).
- : IELTS Exam Test Results: Band 7.5.

CHRONOLOGICAL EXPERIENCE RECORD

Dates Employer Job title Job Description	 From Jun. 2019 till now RAYA NETWORK SERVICES Senior Implementation Electrical Engineer (Data Center Engineer) Design, operation and maintenance of the following: MV and LV Switchgear, BMS, HVAC, generators, electrical panels, UPS, ATS / STS, batteries, grounding, firefighting and fire alarms systems, CCTV and access control. Perform testing and commissioning activities for Data and Telecommunication related equipment on customer sites for commercial and industrial use as well as participate in installation supervision of these equipment. Supervising monthly, quarterly, and yearly preventive maintenance procedures. Also, maintaining on-site job records and administration tracking.
Dates Employer Job title Job Description	 From Oct. 2017 till May 2019 ENGINEERING CONSULTANTS GROUP Senior Electrical Design Engineer Electrical systems design and preparing calculations reports for the distribution system including lighting; Small power; Earthing; Lightning; MV switchgear; Distributors; BOQ; Sizing of transformers, generators, UPS, ATS, STS, power panels, busbars and busways, and cables. Voltage drop, short circuit and harmonics calculations, and power system protection design. Rooftop photovoltaic panels and solar water pumping system design. Working according to international standards and regulations such as IEC, IEEE, British Standard, NFPAetc. Prepare electrical equipment specifications, technical requirements, and datasheets. Prepare electrical load list and analysis. Create and revise one-line diagrams and schematic diagrams. Develop electrical plot plan and layouts. Coordinate electrical designs with other related departments.
Dates Employer Job title	 From Feb. 2015 till Sep. 2017 ELECTRO THARWAT COMPANY Site / Technical Office Engineer

Job Description	 Design of electrical power substations. This includes preparing drawings such as layouts, sections, and details for substations. Commissioning, installation and testing of power stations, which includes generators, transformers, motors, circuit breakers, GIS, switchyard and switchgear. Develop and evaluate conceptual substation design options to initiate transmission and distribution system projects. Perform engineering analysis/calculations to support substation designs. Provide design assistance for documentation of substation asset maintenance and upgrades - Specification for purchase of all major equipment contained in substation projects (i.e. large power transformers, breakers, voltage regulators, switches, surge arresters, bus/wire sizes, etc.). Installation of DCS (Distributed Control Systems) and protection systems for motors, generators and power transformers.
Dates	: From Oct. 2012 till Jan. 2015
Employer	: FRANK NOE COMPANY
Job title	: AUTOMATION (CONTROL & INSTRUMENTATION) ENGINEER
Job Description	 Installing, programming and maintenance of National Instruments (Embedded Vision System) and (myDAQ) using LabView software. Dealing with various control systems as a PLC and SCADA systems (HMI) programmer, and supervising new instruments and sensor installations. <u>PUBLICATIONS:</u> Moubarak, A., El-Saady, G. and Ibrahim, El-Noby A. (2018) Battery Energy Storage for Variable Speed Photovoltaic Water Pumping System. ARPN Journal of Engineering and Applied Sciences, 13(23), 8970-8982. Moubarak, A., El-Saady, G. and Ibrahim, El-Noby A. (2018) Optimal Operation of Renewable Energy Irrigation System Using Particle Swarm Optimization. ARPN Journal of Engineering and Applied Sciences, 13(24), 9318-9327. Moubarak, A., El-Saady, G. and Ibrahim, El-Noby A. (2018) Power Quality Improvement of Photovoltaic Water Pumping System Using LC Filter. ARPN Journal of Engineering and Applied Sciences, 13(4), 1311-1326. Moubarak, A., El-Saady, G. and Ibrahim, El-Noby A. (2017) Variable Speed Photovoltaic Water Pumping Using Affinity Laws. Journal of Power and Energy Engineering, 5, 50-71.
	 Moubarak, A., El-Saady, G. and Ibrahim, El-Noby A. (2017) Optimal Operation of Renewable Energy Irrigation System Using Particle Swarm Optimization. 2nd Irbid International Engineering Conference, Irbid - Jordan. Winner of the GKS (Global Korea Scholarship) in South Korea for the position of a visiting student researcher – GKS (Global Korea Scholarship) (Mar. 2019).