

# Shady Mamdouh Sadek Abdul-Mawla



## Personal Information

**Address:** Faysal, Giza, Egypt  
**Date of birth:** 24th Dec 1989  
**Nationality:** Egyptian  
**Religion:** Muslim  
**Marital State:** Single  
**Military State:** Exempted  
**Tel:** +20 – 01002581985 or 01111820603  
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## Education

Sept. 2016-Aug. 2021: **Ain Shams University, Faculty of Engineering**  
**Electrical Power and Machines Department**  
**Ph.D. Degree "Energy Management in Microgrids considering Uncertainties"**

March 2012-May 2016: **Cairo University, Faculty of Engineering**  
**Electrical Power and Machines Department**  
**Master of Science Degree in Electrical Power and Machines**  
**"Direct Torque Control of Permanent Magnet Synchronous Motors"**

Sep 2006-May 2011: **Cairo University, Faculty of Engineering**  
**Electrical Power and Machines Department**  
**BSc of Electrical Power & Machines Engineering with a Grade of "Very Good"**

**The graduation project: [Design of Electrical Distributions and Installations of a Residential Area] was finished with a Grade of "Excellent".**

## Experience

Oct 2014-Present:      **International Academy for Engineering & Media Science (IAEMS)**  
    **2014-2016:** Teaching Assistant in the Electrical Department  
    **2016-2021:** Senior Teaching Assistant in the Electrical Department  
    **2021-present:** Doctor in Electrical Power Department

### Teaching Courses In:

-Electrical Machines	- Electrical Drive Systems
-Automatic & Digital Control	- Renewable Energy Technology
-Programmable Logic Controllers (PLC)	- Power Electronics
- Design & Analysis of Power Systems.	- Electrical Installations.

Oct2012-Oct2014:      **Integrated Technical Educational Cluster Al Ameeria (ITEC)**  
    Teaching Assistant in the Electrical Department

### Teaching Courses In:

-Electrical Machines	-Electrical Drive Systems
-Electrical Installations	-Electrical Machines Lab.
-Electrical Measurements	-Industrial Automation & Control

## Training Courses

<u>June to July 2009:</u>	Networks and Power Stations [Maspiro & Mokattum Stations]
<u>July to Aug. 2010:</u>	Electrical Power Sector [Egyptian Iron & Steel Factory at Helwan]
<u>July to Aug. 2010:</u>	Control & Protection of Electrical Networks [National Energy Control Center]
<u>Aug. to Sep.2010</u>	PLC and Microcontroller Introduction [Exploratory Center for Science and Technology]
<u>Dec 2014</u>	Quality Assurance Training in Strategic Planning for Higher Educational Institutes
<u>Aug 2015</u>	Quality Assurance Training in Teaching and Learning Strategies
<u>Dec 2018</u>	Quality Assurance Training in Self Evaluation
<u>June 2019</u>	National Security Strategies - Nasser Higher Military Academy
<u>Aug 2019</u>	Negotiation & Catastrophes Management – Nasser Higher Military Academy
<u>April 2021</u>	Scholarly Publishing in Indexed Journals- Training and Development Center – Ain Shams University
<u>July 2021</u>	Online Educator Course – UpSkills Center – EMPC
<u>Mar 2022</u>	Self-Evaluation of Programs - Quality Assurance Training

## Skills

### IT Skills:

- Excellent in Operating Systems [Windows 10]
- Excellent in MS Office Applications [MS Word, Excel, PowerPoint]
- Good at AutoCAD 2D, Proteus, GAMS and MATLAB Programs

### Languages:

- Arabic is my mother tongue
- V. Good Command of both Spoken and Written English (TOEFL 623)
- Little French

### Personal Skills:

- Team work skills
- Leadership skills
- Able to learn new skills in short time
- V. Good command in communication and oral presentation skills

## Research Activities

Dec 2015 Participated in: **17<sup>th</sup> International Middle East Power Systems Conference  
MEPCON, IEEE, 2015**

**Shady M. Sadek, Sherif A. Zaid and Mahmoud M. Abd-Elhakim**

***"Comparison between Various Switching Tables for a Direct Torque Controlled Permanent Magnet Synchronous Motor"***

### Dec 2020:

Shady M. Sadek, Walid A. Omran , M. A. Moustafa Hassan, and Hossam E. A. Talaat

***"Day-Ahead Energy Management for Isolated Microgrids Considering Reactive Power Capabilities of Distributed Energy Resources and Reactive Power Costs"***, INTERNATIONAL JOURNAL of RENEWABLE ENERGY RESEARCH, Vol.10, No.4.

### Jan 2021:

Shady M. Sadek, Walid A. Omran , M. A. Moustafa Hassan, and Hossam E. A. Talaat

***"Data Driven Stochastic Energy Management for Isolated Microgrids Based on Generative Adversarial Networks Considering Reactive Power Capabilities of Distributed Energy Resources and Reactive Power Costs"*** IEEE ACCESS, VOLUME 9, 2021.

### May 2021:

Shady M. Sadek, Walid A. Omran , M. A. Moustafa Hassan, and Hossam E. A. Talaat

***"Adaptive robust energy management for isolated microgrids considering reactive power capabilities of distributed energy resources and reactive power costs"*** Electric Power Systems Research, vol 199.

**Dec 2022:**

Shady M. Sadek, Mostafa H. Mostafa and Ahmed K. Ryad

***“Comparison between flux estimation methods for direct torque controlled permanent magnet synchronous motors”*** International Journal of Power Electronics and Drive Systems (IJPEDS)

**June 2023:**

Shady M. Sadek,

***“Economic Dispatch of Combined Heat and Power Systems using Particle Swarm Optimization”*** INTERNATIONAL JOURNAL OF ADVANCED ENGINEERING AND BUSINESS SCIENCES

**Oct 2023:**

Shady M. Sadek, Ahmed K. Ryad, and Mostafa H. Mostafa

***“Stochastic uncertainty management in electricity markets with high renewable energy penetration”*** International Journal of Emerging Electric Power Systems

**Reviewer at highly reputed international journals such as:**

- 1- IEEE ACCESS journal.
- 2- International Journal of Electrical Power and Energy Systems, Elsevier.
- 3- Energy Conversion and Management, Elsevier.