

Mayar Mohsen Mostafa Madboly

PERSONAL INFORMATION

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DATE OF BIRTH: 30/03/1995

COUNTRY OF ORIGIN: Egypt, Cairo

COUNRTY OF RESIDENCE: UAE, Abu Dhabi



EDUCATION

MSC. ELECTRICAL ENERGY ENGINEERING

Cairo University, Faculty of Engineering

Oct.2018 – July 2021

- Cumulative GPA: 3.96

BSC. ELECTRICAL ENERGY ENGINEERING

Cairo University, Faculty of Engineering

Sept.2013 – June.2018

- Cumulative GPA: 3.62 (Excellent Grade with honors -fourth on top of my class)
- Volunteered as a marketing member in youththinkgreen, Egypt.
- Volunteered as a soft skills trainer in IEEE Cairo University Student Branch, Egypt.
- Elected as vice-representative of 2018 class.

WORK EXPERIENCE

RESEARCH AND TEACHING ASSISTANT

Khalifa University, Abu Dhabi, United Arab Emirates

Sept.2021- Ongoing

- Gathered, reviewed, and summarized literature from scientific journals such as IEEE and produced graphs and other scientific calculations using MATLAB and MS Excel.
- Prepared and delivered tutorials and laboratory sessions in electrical circuits I and II
- Supervise projects with undergraduate students in their final year projects
- Composed, graded, and provided feedback for students on lab and tutorial exams

MATH TEACHER

Ministry of Education, UAE

Sept.2019 - August 2021

- Taught mathematics and computer science to grades five, ten and eleven.
- Diversified teaching techniques and learning tools to help students with different academic levels.
- Plans and organizes supplies and resources for a productive and engaging learning environment
- Set up assessments and standardized tests to evaluate student progress also reviews work with struggling students to enhance their performance.

GRADUATE TEACHING ASSISTANT

Cairo University and Zewail City of Science and Technology, Egypt

Sept.2018- August 2019

- Participated in teaching Energy Conservation, Renewable Energy Economics and Legislations, High Voltage Technology and Power Electronics.
- Educated undergraduate students on laboratory kits and tools, including safe use of equipment and chemicals.
- Checked assignments, proctored tests, and provided grades according to university standards.

ENERGY EFFICIENCY CONSULTANT

GIZ, Egypt

Jan.2019- June 2019

- Explained, summarized, and criticized the National Energy Efficiency Action Plan of Egypt.
- Analyzed data reported on the efficiency of generation, transmission, and distribution sectors
- Provided necessary calculations to validate the creation of new energy efficiency projects.
- Proposed necessary modifications and highlighted missing data that needs to be determined.

RESEARCH PUBLICATIONS

M. Madboly, A. El-Deib and M. Elsobki, "Power System Operation in the presence of Flexible Prosumers considering System Congestion," *2021 IEEE 4th International Conference on Power and Energy Applications (ICPEA)*, 2021, pp. 33-37, doi: 10.1109/ICPEA52760.2021.9639331.

S. Edhah, Abeer Awadallah, M.MADBOLY, H.Dawed, N.WERGI, "Image Classification and Text Identification in Inspecting Military Aircrafts Logos: Application of Convolutional Neural Network" *2022 IEEE ROSE Conference, Abu Dhabi, UAE, 2022*

M. Madboly, "Optimal Placement of Fast Electric Vehicle Charging Stations on the Transportation and Active Distribution Network", *2023 IEEE Innovative Smart Grid Technology (ISGT) Conference, Abu Dhabi, UAE, 2023 (under review)*

TRAININGS

- **STEM Teaching and Learning Training**

August 2019- Sep 2019

Ministry of Education, Abu Dhabi, UAE

- **Power Electronics Design – Wireless Power Transfer**

July 2018- Sept 2018

Power Electronics Lab, Cairo University, Cairo, Egypt

- **Educational Satellite Program**

Jan 2017 – Feb 2017

NARSS, Cairo, Egypt

- **Entrepreneurial and Managerial Skills Training**

August 2014- September 2014

DAAD, Cairo, Egypt

PROGRAMMING LANGUAGES

- C
- C++
- JULIA
- SQL
- MATLAB

LANGUAGES

- **Arabic:** mother tongue
- **English:** advanced (C1)
- **German:** intermediate (B1)
- **French:** beginner (A2)

VOLUNTEERING ACTIVITIES

- Site operation volunteer at **Expo Dubai 2020**
- Social initiatives volunteer at **UAE red cross**
- Youththinkgreen
- IEEE CUSB
- Vice-Representative of EEE class 2018

HOBBIES

- Reading
- Swimming
- Tennis
- Hiking
- Cycling