PERSONAL INFORMATION

Mona Ibrahim

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What's app

Sex Female | Date of birth 13/08/1983, Bahrain| Nationality Egyptian

WORK EXPERIENCE

September 2017 - Now

Assistant Professor (full-time)

Arab Academy for Science and Technology and Maritime Transport

- Teaching at the Electrical and Control Engineering Deparrtment

September 2011 - September 2017

Teaching assistant (full-time)

Arab Academy for Science and Technology and Maritime Transport

- Teaching at the Electrical and Control Engineering Deparrtment

September 2006 - September 2011

Teaching assistant (full-time)

Alexandria Institute of Engineering and Technology

- Teaching at the Mechatronics Department

September 2005 - September 2011

Teaching assistant (part-time)

Arab Academy for Science and Technology and Maritime Transport

- Teaching at the Electrical and Control Engineering Department

September 2005

Teaching assistant (part-time)

College of Engineering, Alexandria University

- Teaching at the Basic and Applied Science Department (mathematics)

EDUCATION AND TRAINING

September 2017

PhD in Electrical Engineering

Alexandria University, Egypt

- Thesis:

Control Technique for Wind Turbine Driven (BDFTIG) for Low Voltage Ride through Enhancement

September 2010

M. sc. of Electrical Engineering

Alexandria University, Egypt

- Thesis:

Study And Investigation of Power Flow Control Using HVDC Links and Variable Frequency Transformers

September 2005

B. sc. Electrical of Engineering,

Alexandria University, Egypt

Grade: Excellent With Honour

August 2004

Engineering Trainee

Sidi krir power station

August 2003

Engineering Trainee

Arab Contractors electrical workshop

July 2002

Engineering Trainee

Robotics workshop organized by the IEEE Alexandria regional branch

- Implementation of line tracking robots.

PERSONAL SKILLS

Mother tongue(s) **Arabic**

Other language(s)

English **FLUENT (WRITTEN, SPOKEN, AND COMMUNICATION).**

French **AVERAGE (WRITTEN, SPOKEN, AND COMMUNICATION).**

Communication skills

- Good communication skills as a good listener, nonverbal, clarity and concision, friendliness, confident in all of interactions with others and respect them and their ideas all these skills gained through my experience as lecturer.

Software Skills

- C language
- Pspice simulator
- Eagle® PCB layout editor
- Matlab® (and Simulink®)
- Microsoft office package (word, excel, PowerPoint,Visio etc.)
- System Design, implementation and programming using the following DSPs and microcontrollers:
  - Texas Instrument® TMS320F28335 32-bit DSPs and Texas launchpad.
  - Atmel® AT89C52 and AVR ATmega8535 8-bit microcontrollers
  - Arduino software
- PLC ladder programming
- Power design software (POWEREX, DIALUX ,AUTOCAD and ECODIAL)

Courses Taught

- EE211-electrical measurements 1
- EE218-elecrical measurements and instrumentation (taught to mechanics department students)
- EE231-electrical circuits 1
- EE238-Electrical engineering fundamentals (taught to mechanics department students)
- EE236- Electrical engineering fundamentals 1 (taught to industrial managements department students)
- EE311-Fundamentals of control engineering

- EE312- electrical measurements 2
- EE321-electric machines 1
- EE328-Electrical power and machine (taught to electronics and computer department students)
- EE329- electrical machines (taught to mechanics department students)
- EE322-electrical machines 2
- EE323-power electronics 1
- EE326-electrical machines and control (taught to industrial management department students)
- EE333-electrical and magnetic fields 2
- EE341-introduction to power
- EE411-Control system 1
- EE412-Control system 2
- EE417-Automatic Control Engineering (taught to mechanics department students)
- EE418-Automatic Control systems (taught to electronics department students)
- EE419-Modern Control (taught to mechanics department students)
- EE423-Power Electronics 2
- EE424-Electric Drives 1
- EE448-Electric Power (taught to mechanics department students)
- EE449-Electric Power in ships (taught to marine department students)
- EE513-Control Applications in power systems
- EE514-Robtics

JOB RELATED TASKS

Quality Control

- Member of the college of engineering Quality Committee
- Member of the ABET accreditation executive Steering Committee.
- Member of the NAQAAE accreditation executive Steering Committee.

Training

- Member of the college of engineering Training Committee
- Head of the training Committee of the electrical engineering department.
- Academic advisor and college representative for international training programs and workshops held in collaboration with universities abroad.

Timetabling procedures

- Member of the college of engineering timetabling Committee
- Configuring the Timetable System each year
- Reviewing and managing the scheduling and timetabling process and addressing any issues that arise from or impact on those processes.

ADDITIONAL INFORMATION

Publications

- Hebala, A.; Abdelkader, M.I.; Ibrahim, R.A. "Comparative Analysis of Energy Consumption and Performance Metrics in Fuel Cell, Battery, and Hybrid Electric Vehicles Under Varying Wind and Road Conditions." *Technologies* **2025**, *13*, 150. https://doi.org/10.3390/technologies13040150
- Mona I. Abdelkader, Rana Ahmed, " Design and Implementation of a Cardless Pre-Paid/Post-Paid Smart meter " , ICPSE 2024 ,Ankara, Turkey September 2024

- Mona I. Abdelkader, Motaz Amer, "Wireless Charger Design for Smart Shopping Carts" , ICPSE 2024 ,Ankara, Turkey September 2024
- RM Ahmed, NE Zakzouk, MI Abdelkader, AK Abdelsalam, "Modified partial-shading-tolerant multi-input-single-output photovoltaic string converter" IEEE Access 9, 30663-30676, 2021
- MI Abdelkader, AK Abdelsalam, AA Hossameldin, "Indirect vector-controlled brushless doubly-fed twin-stator induction generator for wind energy conversion application" Energies 13 (16), 4174, 2020
- M. I. Abdelkader, A. K. Abdelsalam and A. A. H. Eldin, " Brushless Doubly Fed Induction Machine Based Wind Energy Conversion Systems: Fault Ride-Through Capability Enhancement" , 2016 18th European Conference on Power Electronics and Applications (EPE'16 ECCE-Europe) (accepted paper)
- M. I. Abdelkader, A. K. Abdelsalam and A. A. H. Eldin, "Vector Controlled Brushless Doubly Fed Twin Stator Cascaded Induction Generator for Variable Speed Wind Generation Connected to Weak Grids" , 2015 17th European Conference on Power Electronics and Applications (EPE'15 ECCE-Europe), Geneva, 2015, pp. 1-12. , 2015
- M. I. Abdelkader, A. K. Abdelsalam and A. A. Hossam, "Asynchronous grid interconnection using brushless Doubly Fed Induction Machines: Assessment on various configurations," , 2014 16th International Power Electronics and Motion Control Conference and Exposition, Antalya, 2014, pp. 406-412. , 2014.
- H. El Din, Mohamed Ashraf Abdullah and M. Ibrahim, "A MATLAB/SIMULINK model to study the performance of the VFT for the interconnection of weak and strong AC grids" , 2011 IEEE International Electric Machines & Drives Conference (IEMDC), Niagara Falls, ON, 2011, pp. 1635-1640. , 2011.
- A. H. El Din, Mohamed Ashraf Abdullah and M. Ibrahim, " A novel model to study the VFT performance when controlling power transfer between weak and strong AC grids using MATLAB/SIMULINK " , 2010 IEEE International Energy Conference (ENERGYCON), Bahrain, 2010, pp. 189-193.