

Curriculum Vitae
Dr. Mohamed Fawzy El-Khatib
Assistant Professor

Department of Mechatronics and Robotics
 Faculty of Engineering, Egyptian Russian University
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1. Personal Information

First Name / Sure Name: Mohamed Fawzy Abdelaal Abdelgwad Elkhatib
Date of Birth: 11-05-1991
Address: 156 First Distinction, Badr City, Cairo.
Nationality: Egyptian
Phone: (+2) 01004838301
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Gender: male

2. Education

Title of Awarded Degree	Name of Organization Providing Education	Principle Subject	Dates	
			From	To
Ph.D	Faculty of Engineering Ain Shams University, Cairo, Egypt.	Mechanical and Mechatronics	2019	2023
			Thesis: "A proposed smart and cost-effective controller for maximum power extraction from PV systems for different load types".	
Ph.D. Courses	Bauman Moscow State Technical University, Moscow, Russia.	Ph.D courses	2018	2019
			Thesis: "An advanced maximum power point tracking control technique for a photovoltaic-solar pump system".	
MSc.	Arab Academy for Science, Technology and Maritime Transport (AASTMT), Cairo, Egypt.	Mechanical (Mechatronics) Engineering	2015	2017
			Thesis: "Controllable omni wheel vehicle equipped with industrial arm robot".	
BSc.	Faculty of Engineering Egyptian Russian University	Mechatronics and Robotics	2009	2014

3. Professional Experience

Occupation	Name & Address of Employer	Main Activities & Responsibilities	Dates
Assistant Professor	Egyptian Russian University	Teaching Mechatronics and Robotics Engineering courses	Dec. 2023 – Present
Lecturer Assistant	Egyptian Russian University	Teaching Mechatronics and Robotics Engineering related courses	Dec. 2017- Present
Teaching Assistant	Egyptian Russian University	Teaching Mechatronics and Robotics Engineering related courses	Sept. 2014- Nov. 2017
CAD/CAM Designer	Cutting and Forming metal factory- Egyptian Armed Force	CAD/CAM Designer on CNC Punch Machine.	Sept. 2014 - Apr. 2017
Head of production line at Radiator Factory	Radiator Factory- Egyptian Armed Force	Production of automobile spare parts Radiators	
Head of production line at Muffler Factory	Muffler Factory- Egyptian Armed Force	Production of automobile spare parts Silencers	

4. Teaching Experience

Course Title	Course Code	University	Academic Years
Modeling and Simulation	ME405	Egyptian Russian University	2014- Present
Logic Circuit	EE108		
Automatic Control Systems	EE211		
Motion Control & Servo	BS001		
Programmable Logic Control	EE415		
Power Electronics	EE217		
Theory of Machines	ME307		
Electrical Machinery	EE222		
Electronics	EE101		
Robotics	ME404		

5. Professional, Technical Skills, and Job Responsibilities

- Robot, Artificial Intelligent, Programmable Logic Controllers, Model and Simulation of Mechatronics system.
- Involved in the research and design of new courses and materials.
- Assessing students' coursework and material.
- Involved in the setup of exams and the marking of results.
- Responsible for the departmental administrative tasks.
- Providing mentoring, advice, and support to students on a personal level.
- Implementing University research projects and being involved in their publication.
- Carrying out staff appraisals.
- Leading class discussions and encouraging debate.
- Cooperation, Creative, Flexibility, Hardworking, Work ethic.

5. Personal Skills

Computer Skills	Self Assessment		
	Excellent	Good	Fair
ICDL	√		
MATLAB	√		
ANSYS		√	
SOLIDWORKS	√		
AutoCAD	√		
ROS		√	
LabView	√		
C	√		
C++	√		
Python	√		
Language Skills	Self Assessment		
	Excellent	Good	Fair
English	√		
French			√
Russian			√
Other Skills			

6. Supervision

- **Neutrino Racing Team: Electric vehicle developers at ERU (January 2024 – Present).**

6. Scientific Activities

Publication:

- Mohamed I. Abu El-Sebah, Aly M. Eissa, **Mohamed Fawzy El-Khatib**. Investigation of Artificial Intelligence Algorithms for MPPT of Solar Photovoltaic System. *WSEAS Transactions on Systems and Control*, 2023, 18: 561-568.
- Aly M. Eissa, **Mohamed Fawzy El-Khatib**, Mohamed I. Abu El-Sebah. Dynamics Analysis and Control of a Two-Link Manipulator. *WSEAS Transactions on Systems and Control*, 2023, 18: 487-497.
- **Mohamed Fawzy El-Khatib**, Elsayed Atif Aner. Efficient MPPT control for a photovoltaic system using artificial neural networks. *ERU Research Journal*, 2023, 1-14.
- **Mohamed Fawzy El-Khatib**, Mohamed-Nabil Sabry, Mohamed I. Abu El-Sebah, and Shady A. Maged. (2023). "Hardware-in-the-loop testing of simple and intelligent MPPT control algorithm for an electric vehicle charging power by photovoltaic system". *ISA Transactions*.
- **Mohamed Fawzy El-Khatib**, Mohamed-Nabil Sabry, Mohamed I. Abu El-Sebah, and Shady A. Maged. 2022. "Experimental modeling of a new multi-degree-of-freedom fuzzy controller based maximum power point tracking from a photovoltaic system" *Applied System Innovation* 5, no. 6: 114.
- **Mohamed Fawzy El-Khatib**, and Shady A. Maged. "Low level position control for 4-DOF arm robot using fuzzy logic controller and 2-DOF PID controller." 2021 International Mobile, Intelligent, and Ubiquitous Computing Conference (MIUCC). IEEE, 2021.
- **Mohamed Fawzy El-Khatib**, S. Shaaban, and M.I. Abu El-Sebah. "A proposed advanced maximum power point tracking control for a photovoltaic-solar pump system.", *Solar Energy*, 158 (2017): 321-331.

I certify that the information provided in this curriculum vitae is accurate.

Name	<i>Mohamed Fawzy Elkhatib</i>	Date	31-3-2024
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