Mahmoud Gamal Abdalnasser

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Objective:

To undertake a PhD in trajectory tracking and nonlinear control of robotic systems, leveraging my background in control systems and deep learning to advance innovative research and develop practical solutions within a leading robotics research group.

Current Position:

Assistant Lecturer at Mechatronics Department at Faculty of Engineering at Shoubra - Benha University – Egypt.

Education:

2/2025	Master's Degree of Mechatronics Engineering – Faculty of Engineering at Shoubra - Benha University – Egypt. **Thesis title:** "Analytical and Experimental Study of Mobile Manipulator Motion Control"
8/2018	Bachelor's Degree of Mechanical Design and Production Engineering, Faculty of Engineering at Shoubra - Benha University – Egypt.

Work Experience:

2018-present	Teaching Assistant and Scientific Researcher at Mechanical Engineering Department, Faculty of Engineering at Shoubra, Benha University.

Teaching Experience

Automatic Control System.	Design Of Machine Element.
Theory of measurement.	Kinematics of mechanisms.
Mechanical vibration.	Stress Analysis.
Mechanics of material.	Computer aided drawing.
Faults diagnosis using vibration.	Mechanical drawing.

Sep 2021 – May 2021	Teaching Assistant Cairo University, Faculty of Engineering

Teaching Experience

Principles of Manufacturing Engineering.	Welding and Casting Technologies.

Scientific interest:

Robotics	Deep Learning
Control System	System identification
Trajectory tracking control	

Publications:

M. G. Abdalnasser, M. Elsamanty, and A. A. Ibrahim, "Trajectory Tracking of Wheeled Mobile Robot Through System Identification and Control Using Deep Neural Network," Eng. Res. J., Sep. 2024, doi: 10.21608/erj.2024.304953.1075.

Skills:

Technical Skills
Excellent Experience in Solidworks.
Good Programing Skills with MATLAB.
Good Programing Skills with python.
Good Programing Skills with c++.
Good Programing Skills with LabVIEW.
Good Experience in Ansys.
Excellent experience in ROS (robot Operating System).
Excellent Experience with Arduino/teensy board.
Excellent Experience with Microsoft Office.

Language Skills
▪ **ARABIC:** Native language.
▪ **ENGLISH:** Excellent written – very good spoken