

Abdelmaged Elsayed Abdelmaged

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Professional Summary

Teaching Assistant at Benha Faculty of Engineering with hands-on experience in **artificial intelligence, robotics, and control systems**. Passionate about research and development of intelligent robotic systems, combining analytical modeling with practical implementation. Skilled in mechanical design, MATLAB simulation, and integration of AI techniques for automation and smart control applications.

Education

B.Sc. in Mechanical Engineering (Mechatronics) 2017 – 2022

Benha Faculty of Engineering, Egypt

Ranked first in the Mechanics Department. Graduation project: “Skyscraper window cleaning robot with vision system (Raspberry Pi)” — Grade: Excellent.

Overall Grade: Excellent.

Professional Experience

Teaching Assistant (TA) — Benha Faculty of Engineering, Benha, Egypt 2023 – Present

- Assist in delivering lectures and supervising laboratory sessions for Mechanical and Mechatronics Engineering courses.
- Guide students in design projects, CAD modeling, and programming applications.
- Support research activities and academic publications in the field of mechanical design and automation.

Technical Skills

Software: SolidWorks (Excellent), MATLAB (Excellent), Microsoft Office (Excellent), AutoCAD (Good)

Programming: Python (Very Good), C++ (Very Good)

Simulation: Abaqus (Finite Element Analysis) (Good)

Training & Courses

Holding Company for Water and Wastewater – Kaliobya Branch Summer 2021
Practical training on water and wastewater treatment systems.

Military Production Factory – Banha Summer 2021
Exposure to industrial manufacturing processes and quality control.

Courses: AutoCAD (2018), SolidWorks (2019), 3D Printing & Laser Cutting (2020)

Publications

Abdelmaged E. A. El-Sayed, Ahmed A. El-Betar, and Mohamed E. M. Salem,
“*Manufacturing and modeling of helix-wrapped pneumatic artificial muscles,*”
Smart Materials and Structures, IOP Publishing Ltd, Published 18 September 2025.
DOI: 10.1088/1361-665X/ae05dc

Languages

Arabic (Native), English (Proficient)

Research Interests

Artificial Intelligence, Robotics, Continuum Robots, Control Systems, Smart Materials