

# Abdelrahman Mostafa

**Mechatronics TA @HTI | AI Researcher**

Email: [abdelrahmanmost.33@gmail.com](mailto:abdelrahmanmost.33@gmail.com)

Phone: +20 1013933185

---

## Professional Summary

I am an experienced AI researcher and teaching assistant with a strong background in Mechatronics and AI technologies. My expertise lies in designing, implementing, and delivering AI and machine learning training programs. I am passionate about leveraging advanced tools and frameworks to bridge the gap between AI theory and practical applications. Seeking a role in AI research and development where I can share knowledge, conduct impactful research and contribute to advancing AI education.

---

## Professional Experience

### Higher Technological Institute — Teaching Assistant

October 2022 - Present

- Delivered technical courses in Mechanical, Electrical, and Computer Engineering.
- Conducted workshops and hands-on labs, integrating AI and machine learning tools.
- Guided students in research and AI-related projects, focusing on neural networks and computer vision-based systems.

### RobotechEGYPT — Trainee

August 2020 - November 2020

- Worked with robotics frameworks, sensors, and actuators, emphasizing control systems.
- Explored AI integration in robotics through project-based training.

### Egypt Air — Mechatronics Engineer

April 2019 - October 2019

- Gained experience in aircraft maintenance, focusing on control systems and predictive analytics.
  - Learned applications of AI in fault detection and system diagnostics.
-

## Education

### Master's Degree in Mechatronics, Zagazig University

September 2022 - Present

- GPA: 3.63 / 4
- Research point focus: Machine Learning and Neural Networks for Mechanical engineering applications.

### Bachelor's Degree in Mechatronics, Zagazig University

September 2016 - June 2021

- GPA: 3.54/4
  - Graduated with excellent grade on SCARA Robot project, an articulated robotic arm with 5 degrees of freedom.
- 

## Skills

- **AI Training and Prompt Engineering**: Designing and delivering AI training programs, effective prompt creation for AI tools.
  - **Machine Learning**: Expertise in supervised, unsupervised, and reinforcement learning models.
  - **Programming**: Python (TensorFlow, PyTorch, NumPy, Pandas), MATLAB, Simulink.
  - **Data Science**: Data preprocessing, visualization (Matplotlib, Seaborn), and statistical analysis.
  - **Robotics and Automation**: Sensor integration, actuators, and robotics frameworks.
  - **Tools**: Jupyter Notebook, Colab, Microsoft Excel, Microsoft Word.
  - **Soft Skills**: Teaching, technical writing, and project planning.
- 

## Certifications

- Machine Learning and Data Science Certification — IBM
  - Self-Driving Cars Nanodegree — Udacity
  - Training Certification — Egypt Air
- 

## Languages

- Arabic (Native)
- English (Professional)
- French (Basic)