

Ahmed Gamal Mahmoud A. Aziz

PhD,

Lecturer, Electrical and Computer Engineering Dept.
Higher Institute for Engineering and Technology, New Minia,
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Personal Information

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Date of Birth: May, 18/1988

Place of Birth: Minia, Egypt.

Marital Status: Married.

Military status: Exemption.

Current Position:

- **Lecturer, Department of Electrical and Computer Engineering,** Higher Institute for Engineering and Technology (MHIET), New Minia, Egypt
May 2021 – Present.
- **Vice Head of the Department of Electrical Engineering and Computer Engineering,** Higher Institute for Engineering and Technology (MHIET), New Minia, Egypt
June 2023 – Present.

Previous Position:

1. **Teaching Assistant,** Department of Electrical and Computer Engineering:
9 / 2010 to 5 / 2016.
2. **Assistant Lecturer,** Department of Electrical and Computer Engineering:
5 / 2016 to 5 / 2021.

Examination and Quality Assurance Committee Member

- Participated in examination control, grading, result preparation, and exam supervision: . Electrical and Computer Engineering Programs: 2021 – 2024,
. Architecture Engineering Program: 2024 – Present.
- Actively participated in Quality Assurance activities and contributed to the institute obtaining national accreditation from the National Authority for Quality Assurance and Accreditation of Education (NAQAEE).

- Served as Academic Standards Coordinator for the Department of Electrical and Computer Engineering.
- Currently responsible for the following accreditation standards within the department:
 - . Faculty Members and Supporting Staff Standard
 - . Quality Assurance and Program Evaluation Standard.

Courses I teach:

- Advanced Industrial Electronics
- AC and DC Circuit Analysis
- Power Systems
- Electrical Measurements
- Electrical Machines
- Electrical Machines and Control
- Electronic Ignition Circuits
- Network Analysis
- Introduction to Computer Science
- Computer Skills

Visiting Teaching Experience

- **Visiting Lecturer**, Faculty of Technology, Fayoum Technological International University (FITU), Egypt: 2025–2026 (*1st Semester: 1 day/week – 2nd Semester: 2 days/week*)

<p>Education: First University Degree 2005-2010</p> <p>Grade of project:</p> <p>Second University Degree</p> <p>Third University Degree</p>	<ul style="list-style-type: none"> □ Faculty of Engineering, Mania University, Mania, Egypt. □ B.Sc., Department of Electrical Engineering. <ul style="list-style-type: none"> ▪ Rank.(3rd), Final year grade (Excellent 85%). □ Excellent. □ Design of electric car with linear induction motor and control it with PLC. □ Detection the direction and speed of conveyer system with Siemens PLC. □ M.Sc., Department of Electrical Engineering. □ Title of Thesis: “<i>Efficient Methods for Improved of Transient State Performance of Doubly Fed Induction Motors</i>” □ PhD with specialization in Electrical Power and Machines Engineering □ Title of Thesis: “<i>Analysis and Simulation of Vector Controlled Induction Motor Drives</i>”
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Computer Skills: and Courses	<ul style="list-style-type: none"> ❑ Microsoft office. ❑ MATLAB software program. ❑ Programmable logic controller "PLC" level 1 (Excellent), Jelecom training company. ❑ Programmable logic controller "PLC" advanced level (Excellent), Jelecom training company.
Training Experience:	<ul style="list-style-type: none"> ❑ Program/Course Specifications and Assessment of ILOs: Faculties and Institutes of Higher Education (NAQAAE 2019). ❑ Strategic Planning: Faculties and Institutes of Higher Education (NAQAAE 2025). ❑ Examination systems and student evaluation (Minia University 2021). ❑ Fundamentals of Digital Transformation (Minia University 2021). ❑ International Database Searching and Scientific Reference Management "EndNote" (Minia University 2020). ❑ Middle Egyptian company for transmission of electricity. ❑ Middle Egyptian company for distribution of electricity. ❑ Training in Mechanical Drawing in the Faculty of Engineering, Mania University. ❑ Training on the Workshop Machines in the Faculty of Engineering, Mania University.
Skills & Interests:	<ul style="list-style-type: none"> ❑ Can Work Under Hard Conditions. ❑ Presentable and Have High Communication Skills . ❑ Have High Flexibility to New Concepts and Responsibilities. ❑ Collecting Data about Electrical Engineering. ❑ Travelling. ❑ Reading.
References:	<ul style="list-style-type: none"> ❑ Prof. Dr. Ahmed Abd Elhameed, Tel. +201021777925 ❑ Prof. Dr. Yehia Sayed Mohammed, Tel. +201094016050 <p>Department of Electrical Engineering, Minia University, Egypt.</p>
Publications :	<ul style="list-style-type: none"> ❑ A. G. M. A. Aziz, Saleh Al Dawsari, Amr E Rafaat, Ayat G Abo El-Magd, and A. A. Z. Diab, " A Smart Four-DOF SCARA Robot: Design, Kinematic Modeling, and Machine Learning-Based Performance Evaluation," <i>Automation</i>, vol. 7, no. 1, 2026. 10.3390/automation7010011 ❑ A. G. M. A. Aziz, " A Novel Application of Self-Organizing Maps for Partial Discharge-Based Condition Monitoring in AIS and GIS Substations," <i>2025 26th International Middle East Power Systems Conference (MEPCON), Aswan, Egypt, 2026</i>, pp. 1-7, doi: 10.1109/MEPCON66918.2026.11359806 ❑ A. G. M. A. Aziz, " A Robust Machine Learning Framework for Partial Discharge Diagnosis in Diverse Power Substations," <i>International Journal of Artificial Intelligence and Emerging Technology</i>, vol. 7, no. 2, 2024. 10.21608/ijalet.2025.430015.1018

- A. G. M. A. Aziz, " Insulation Coordination and Reliability in Modern Substations: Case Study of AIS and GIS in the Egyptian Grid," *International Journal of Artificial Intelligence and Emerging Technology*, vol. 7, no. 1, 2024. [10.21608/ijaiet.2025.426139.1017](https://doi.org/10.21608/ijaiet.2025.426139.1017)
- A. G. M. A. Aziz, Almoataz Y. Abdelaziz, Ziad M. Ali, and A. A. Z. Diab, " A Comprehensive Examination of Vector Controlled Induction Motor Drives Techniques," *Energies*, vol. 16, no. 2854, 2023. <https://doi.org/10.3390/en16062854>
- A. G. M. A. Aziz, H. Rez, and A. A. Z. Diab, "Robust Sensorless Model-Predictive Torque Flux Control for High-Performance Induction Motor Drives," *Mathematics*, vol. 9, no. 4, 2021. <https://doi.org/10.3390/math9040403>
- A. G. M. A. Aziz, H. Ali, Y. S. Mohammed, and A. A. Z. Diab, "Investigation of the Performance of Model Predictive Control for Induction Motor Drives," *INFORMATION TECHNOLOGY IN INDUSTRY*, vol. 9, no. 1, pp. 1007-1015, 2021. <https://doi.org/10.17762/itii.v9i1.235>
- A. G. M. A. Aziz, "Speed sensorless vector controlled induction motor drive based stator and rotor resistances estimation taking core losses into account," in *Nineteenth International Middle East Power Systems Conference (MEPCON)*, pp. 1059-1068, 2017. [10.1109/MEPCON.2017.8301313](https://doi.org/10.1109/MEPCON.2017.8301313)
- A. G. M. A. Aziz, Y. S. Mohammed, H. Ali, and A. A. Z. Diab, "Core Loss Compensation of Sensorless Direct-Field Oriented Induction Motor Drives Based on Adaptive Full-Order Observer," *International Journal of Engineering and Information Systems (IJEAIS)*, vol. 5, no. 2, pp. 82-92. <https://orcid.org/0000-0001-5484-4223>
- Yehia S. Mohamed , A. M. El-Sawy, Adel A. Elbaseta, Ahmed G. Mahmoud "An Efficient Method For Optimum Starting Performance of a Doubly Fed Induction Motor Drive Without a Speed Transducer" *Minia Journal of Engineering and Technology (MJET)* , Minia University, Vol.34,No1,PP.306-January 2015.