

Curriculum vitae Dr. Amr Emad

Name	Amr Emad Eldin Refaat
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E-mail	engamremad89@mhiet.edu.eg
Date of Birth	29/07/1989
Nationality	Egyptian
Marital Status	married
Current job	Lecture at El Minia higher institute of engineering and technology (MHIET) Deputy Executive Director of Quality Assurance Unit at the Higher Institute of Engineering and Technology in New Minya



Education:

University Education: El-Minia High Institute for Engineering and Technology, ElMinia, Egypt

Ph.D. Mechanical Engineering, Minia University, 2020

M.Sc. Mechanical Engineering, Minia University, 2016

B.Sc., Mechanical Engineering (Branch Mechatronics), 2011

Final year Grade: excellent

Graduation Grade: excellent

B.Sc. project: CNC wood router , **rate: Excellent.**

Published papers:

- 1- Ahmed A. Zaki Diab, Abdulsalam Ezzat, **Amr E. Rafaat**, et al " Optimal identification of model parameters for PVs using equilibrium, coot bird and artificial ecosystem optimisation algorithms " IET Renewable Power Generation, Volume 16, Issue 10 Pages: 1971-2190 , 27 July 2022.
- 2- Ahmed A. Zaki Diab,Ameena Al Sumaiti,A. A. Ezzat,**Amr E. Rafaat** ,et al “ New objective function of parameters extraction of photovoltaic modules for plummeting execution time complexity “ IET Renewable Power Generation , Volume 16, Issue 10 Pages: 1971-2190 , 07 May 2022.(IJMPERD) ,ISSN (P): 2249-6890; ISSN (E): 2249-8001 Vol. 9, Issue 4, Aug 2019, 363376
- 3- W. W. Marzouk , Adel A. Elbaset, A.I.A. Galal, **Amr Emad** " An Improved Approach of Inverse Kinematics Solution for Robotics Arm with Five Degree of Freedom Using ANFIS" International Journal of Academic Engineering Research (IJAER),Vol. 2 Issue 11, November – 2018, Pages: 28-33.

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- 4- A. A. M. Hassan ,Adel A. Elbaset,A. T. Hasouna,Amr Emad " Design of a Solar Tracking System for Improving Solar Photovoltaic Efficiency " 17th International Middle East Power System Conference MEPCON'15 Mansoura University, December 15-17, 2015.
- 5- A. A. M. Hassan ,Adel A. Elbaset,A. T. Hasouna,Amr Emad " Design of a Solar Tracking System for Improving Solar Photovoltaic Efficiency " Minia Journal of Engineering and Technology, (MJET) , Vol. 34, No 1, January 2015.
- 6- A. A. M. Hassan ,Adel A. Elbaset,A. T. Hasouna, Amr Emad , "Analytical Modelling , Simulation and Implementation of Solar Tracker" International Journal of Academic Engineering Research (IJAER) ISSN: 2000-001X Vol. 3 Issue 2, February – 2019, Pages: 1-14
- 7- W. W. Marzouk , Adel A. Elbaset, A.I.A. Galal, Amr Emad "MODELLING, ANALYSIS AND SIMULATION FOR A 6 AXIS ARM ROBOT BY PID CONTROLLER" International Journal of Mechanical and Production Engineering Research and Development
- 8- Rafaat, Amr E., A. A. M. Hassan, Denis A. Kotin, and Ahmed A. Zaki Diab. "Novel Models on Packed Bed Solar Air Collectors." In *2022 Conference of Russian Young Researchers in Electrical and Electronic Engineering (ElConRus)*, pp. 853-857. IEEE, 2022.
- 9- Ezzat, A., Diab, A., Emad, A., & Emad, A. (2024). An Embedded System Approach for Enhancing Customer Service and Operational Efficiency through Smart Assistant Robotics. *Journal of Advanced Engineering Trends*, 43(2), 341-346. doi: 10.21608/jaet.2023.218130.1252
- 10- Ezzat, A., Diab, A., & Emad, A. (2024). A Novel Robotic Assistant in the Education Using Embedded Systems. *Journal of Advanced Engineering Trends*, 43(2), 385-390. doi: 10.21608/jaet.2024.237453.1257

Computer skills:

OS:

- Windows OS

Programs:

- AutoCAD 2D and 3D 2004,2007 and 2022
- ICDL
- PLC
- MATLAB 2022a program
- SolidWorks
- Robotics studio
- C, C++
- Python
- Python for Data Science, AI & Development
- VHDL
- Assembly Language
- Generative AI Professional
- Natural Language Processing

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Language:

- Arabic: Mother tongue.
- English: Very-Good written and spoke

Experiences & Training & Projects

year	Achievement
2014	Automatic submarine ROV 2015
2013	Teaching course (MATLAB, microcontroller and robots)
2011	- Workshop at Siemens company for PIC step 7 400 - micro master drive
2008	PLC LG at jeclcom
2020	Machine Learning
2021	Generative AI Professional
2021- Until now	Coordinator of the strategic planning standard in the quality assurance unit
2024-Until now	Deputy Director of Quality Assurance Unit at the Institute
2023	" Strategic Planning: Faculties and Institutes of Higher Education "
2023	" Program/Course Specifications and Assessment of ILOs: Faculties and Institutes of Higher Education "
2023	" Teaching Strategies and Effective Learning: Faculties and Institutes of Higher Education "
2023	" Exams and Students' Assessment Systems: Faculties and Institutes of Higher Education "
2023	" Self-Evaluation: Faculties and Institutes of Higher Education "
2024	" External Review: Faculties and Institutes of Higher Education "
2024	Workshop "University Ranking Strategies "
2024	Workshop "Research Grants: Spotting – Positioning – Drafting"
2024	Workshop "From papers to patents - Innovation Roadmap for universities"

Capabilities:

- Work as team member and alone
- Ready for more education and training.
- Ready to accept responsibility.
- Closer, target and result oriented.