

1. Name: Basem Abd-Elhamed Rashad, Assistant Professor, Department of Electrical Power and Machines Engineering, Higher Institute of Engineering, Elshorouk Academy.

2. Degrees:

- B.S. (Electrical Power and Machines Engineering) Higher Institute of Engineering, Elshorouk Academy, Elshorouk City, Cairo, Egypt. 2006
- M.S. (Electrical and Control Engineering) Arab Academy for Science and Technology and Maritime Transport (AASTMT), Cairo, Egypt. 2014
- Ph.D. (Electrical Power and Machines Engineering) Digital protection, Cairo University, Cairo, Egypt. 2020

3. Years of Service on Faculty: 17

- 06/2020 - present Assistant Professor.

4. Other Experience:

5. Consulting Activities (selected)

- Design and supervision of distribution system and light current systems at IBRA Park, Ibra, Oman (2022-2023).
- Design and Co-supervising electrical distribution system, and electrical Protection system projects.

6. States in which registered:

- Cairo, Egypt.

7. Principal publications of last 5 years (selected):

- Abdelfattah, W., Abdelhamid, A. S., Hasanien, H. M., & **Basem Abd-Elhamed Rashad**. (2024). ,“**Smart vehicle-to-grid integration strategy for enhancing distribution system performance and electric vehicle profitability**,”. *Energy*, 131807. <https://doi.org/10.1016/j.energy.2024.131807>
- **Basem Abd-Elhamed Rashad**, Ibrahim, D. K., Gilany, M. I., Abdelhamid, A. S., & Abdelfattah, W. (2024), “**Identification of broken conductor faults in interconnected transmission systems based on discrete wavelet transform**,”. *Plos one*, 19(1), e0296773. <https://doi.org/10.1371/journal.pone.0296773>
- **Basem Abd-Elhamed Rashad**, Ibrahim, D. K., & Gilany, M. I. (2020), “**Adaptive single-end transient-based scheme for detection and location of open conductor faults in HV transmission lines**,”. *Electric Power Systems Research*, 182, 106252. <https://doi.org/10.1016/j.epsr.2020.106252>
- **Basem Abd-Elhamed Rashad**, Ibrahim, D. K., & Gilany, M. I. (2020), “**Single-End Measuring Scheme for Open Conductor Fault Detection Based on Discrete Wavelet Transform in HV Transmission Lines**,”. *International Journal of Engineering and Information Systems (IJEAIS)*, 4, 8,2020.
- Abdelaziz, Y., El-Helw, M., & **Basem Abd-Elhamed Rashad**. (2014), “**Comparative Study of Three Maximum Power Point Tracking Algorithms for Grid Connected PV Array**,”. *ELECTRIMACS 2014, 19th -22nd May 2014, Valencia, Spain*.
- Abdelaziz, Y., El-Helw, M., & **Basem Abd-Elhamed Rashad**. (2013), “**Transient analysis of grid-connected photovoltaic system based on comparative study of Maximum Power Point Tracking Techniques**,”. *International Journal of Advances in Power Systems (IJAPS)*, 1(3).

8. Scientific and professional societies of which a member

- Egyptian Engineers Syndicate, and Egyptian Society of Engineers.

9. Honors and awards:

- None

10. Institutional & professional service in last 5 years:

- Member of the Internal Quality Assessment Committee, the Electrical Power and Machines Engineering Department, Higher Institute of Engineering, Elshorouk Academy (2020 - Present).

11. Professional Development Activities in the last 5 years:

- Attending many meetings, events, and conferences related to the field of Electrical power and machines at the MEPCON (2020 – present).
- Attending many trainings in the field of education quality (Specification of programs and courses and evaluation of learning outcomes for colleges and institutes of higher education - Self-evaluation of colleges and institutes of higher education - Preparing Course Specifications) at the National Authority for Quality Assurance and Accreditation of Education (NAQAA), Cairo, Egypt (2022 – 2023) and the administrative field (Leadership skills, and Credit Hours System) at Developing the Capabilities of Faculty Members and Leaders Center, Cairo University, Giza, Egypt (2021 – 2022).