

1. Name: Nehad Mokhtar Ahmed Khattab, 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.2011
- M.S. (Electrical Power and Machines Engineering) Cairo University, Giza, Egypt, 2017.
- Ph.D. (Electrical Power and Machines Engineering) Cairo University, Giza, Egypt, 2022.

3. Years of Service on Faculty: 12

- 04/2023 - present Assistant Professor.

4. Other Experience:

5. Consulting Activities (selected)

Suze steel 220kV AIS Substation- MV Cable Sizing Verification Study

6. States in which registered:

- Cairo, Egypt.

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

- Omar, Ahmed I., Nehad M. Khattab, and Shady HE Abdel Aleem. "Optimal strategy for transition into net-zero energy in educational buildings: A case study in El-Shorouk City, Egypt." *Sustainable Energy Technologies and Assessments* 49 (2022): 101701.
- Nehad M. Khattab, Shady HE Abdel Aleem, Tarek A. Boghdady, Rania A. Turkey, Ziad M. Ali, and Mahmoud M. Sayed. "A novel design of fourth-order harmonic passive filters for total demand distortion minimization using crow spiral-based search algorithm." *Ain Shams Engineering Journal* 13, no. 3 (2022): 101632.
- Nehad M. Khattab, Shady HE Abdel Aleem, Tarek A. Boghdady, "Optimal Multi-Objective Design of Anti-Resonance Fourth-Order Passive Power Filter Using TOPSIS-Based NSGA3 in Distorted Distribution Systems," 2022 23rd International Middle East Power Systems Conference (MEPCON), Cairo, Egypt, 2022, pp. 1-8.

8. Scientific and professional societies of which a member

- Egyptian Engineers Syndicate, and Egyptian Society of Engineers.

9. Honors and awards:

10. Institutional & professional service in last 5 years:

Member of the Quality Committee of the Electrical Power and Machines Engineering Department, Higher Institute of Engineering, Shorouk Academy (2022 - 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 (2022 – present).
- Attending **Nature Research Academies Training Workshops** for Teaching-Level Staff in Egypt
- Attending many trainings of 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).