



Curriculum Vitae

1. Personal Data:

- **Name:** Dina Ahmed Zaki Rostom
- **Position:** Assistant professor
- **Department:** Electrical Power Engineering
- **Academic E-Mail:** dina.ahmed@et5.edu.eg



2. Specialization:

- **General Specialization:** Electrical Power and Machines
- **Specific Field :** Renewable energy & Microgrids control.

3. Academic Qualifications:

- **Ph.D. Degree of Philosophy in Power and Electrical Machines** 08/2020
"Microgrid performance for flexible power system operation."
Faculty of engineering, Ain Shams University
Thesis Title:
- **M.S.C Degree in Power and Electrical Machines** 10/2012
"Adaptive distance protection of a double circuit line"
Faculty of engineering, Ain Shams University
Thesis Title:
- **Bachelor of Power and Electrical Machines** 09/2006
Faculty of engineering, Ain Shams University University
Grade: very good with honor

4. Publication

- "Hybrid Driving Training and Particle Swarm Optimization Algorithm-Based Optimal Control for Performance Improvement of Microgrids." *Energies*. 2023 May 26;16(11):4355.
- "A Review of Electricity Tariffs and Enabling Solutions for Optimal Energy Management." *Energies* 15, Vol. 22, p. 8527, Nov. 2022.
- "Adaptive PI control strategy for microgrid performance enhancement Published in International Journal on Energy Conversion IRECON, May 2019, Vol. 7, no.3, p. 82-92.
- "Performance Enhancement of an inverter based decentralized energy generation system using evaporation rate based water cycle algorithm", Published in IEEE Conference on Power Electronics and Renewable Energy (CPERE), 23-25 October 2019, Aswan university, faculty of Engineering, Aswan, Egypt, p.270-277.
- "Tuning PI controllers for optimal microgrid operation based on artificial neural network", Published in IEEE Conference on Power Electronics and Renewable Energy, (CPERE), 23-25 October 2019, Aswan university, faculty of Engineering, Aswan, Egypt, p.371-378.
- "Crow Search Algorithm for Improving the Performance of an Inverter-Based Distributed Generation System", Published in MEPCON conference,



19-21 December 2017, Al Menoufia university, faculty of Engineering, Cairo, Egypt, p. 656-663.

• "Adaptive distance protection of double circuit transmission line."

Published in ICEENG conference, 29-31 May 2012, Military Technical College, Cairo, Egypt, p. 1-15.

• "Adaptive distance protection of parallel transmission line using neural network" published in IJIEPS, vol.4, no. 1, Jan.-June 2012, p.45-62.

5. Working Experiences

- **Lecturer** **2020:Till Now**
Higher Institute of Engineering and Technology, Fifth Settlement, New Cairo
- **Teaching Assistant** **2010:2012**
FUE & AASTMT
- **Demonstrate** **2006:2009**
Higher Institute of Engineering and Technology, Al Shrouk & FUE