

OSSAMA DANKAR CV



1. Personal and Academic rank: Abdallah El Ghaly, Assistant Professor, full time at Beirut Arab University (ABET Accredited)

Address	Lebanon , Tripoli , Qalamoun.
Contact	71984684 E-Mail o.dankar@bau.edu.lb ossamadan@gmail.com .
Date of birth	1 July 1989
Status	Married – 2 kids

2. Education: Degrees, discipline, institution, and date:

Ph.D., Electrical Engineering, Beirut Arab University 2024
M.S., Electrical Engineering, Beirut Arab University 2017
B.S., Electrical Engineering, Beirut Arab University, 2013

3. Academic experience

- Beirut Arab University, Assistant professor, 2024
- Beirut Arab University, Lecturer, 2017- 2024,
- IPNET, and Qalamoun Technical Education Institutes, Instructor 2015-2018, part time

4. Nonacademic experience

- Electrical Engineer at “EDSO construction,” Tripoli, 2013-2018
Relevant Projects: BAU building – Tripoli Branch (Electric Installation and Automation system); AL RAHMA Hospital, Al Mina Sport City, Tripoli Stadium
- Electrical Design Engineer at SAUDI OGER LTD, 2014 –2015
Projects: (KAFFD – Riyadh ; KAWC – Dammam)

5. Certification or professional Registration

- Certificate in “Advanced Presentation Skills”, BAU
- Certificate in “Advanced Electric Installation course,” Order of Engineering Lebanon
- Certificate in “Robotics and Arduino,” STEM

6. Current membership in professional organizations

- Member in Order of Engineering Lebanon, Tripoli
- Member in IEEE

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7. Service activities

- 2025-2026 Graduate Studies Committee member-Beirut Arab University
- 2025 Reviewer – *Fuel Cells (Wiley)* Journal

8. Experience Courses (Graduate and Undergraduate)

- a. Electric Power Systems
- b. High Voltage Engineering
- c. Power System Planning
- d. Electromagnetics
- e. Electric Circuits
- f. Electrical Design in commercial and industrial buildings
- g. Renewable Energy Courses

9. Research Interests

- a. Renewable energy Integration
- b. Advanced control
- c. Smart grids

10. References:

- a. Prof. Ali haidar ari@bau.edu.lb (+9613676121)
- b. Prof. Ziad Osman z.osman@bau.edu.lb (+9613836089)
- c. Prof. Mohammad Tarnini m.tarnini@bau.edu.lb (+9613730409)

11. Rank Link: Associate Professor

<https://www.bau.edu.lb/Staff/Engineering/Academic>

12. Publications

1. Dankar, O., Chahine, K., Tarnini, M., Moubayed, N., and El Ghaly, A., *Neural Network-Based Model Predictive Control for Grid-Connected Photovoltaic-Battery System with Vehicle-to-Grid and Grid-to-Vehicle Operations*, *Electricity* (MDPI), under major revision, 2025.
2. Dankar, O., Chahine, K., Tarnini, M., Moubayed, N., and El Ghaly, A., *A Grid-Tied Photovoltaic-Battery System for Bidirectional Electric Vehicle Charging*, *Proceedings of the International Conference on Electrical Engineering (ICEENG)*, 2025.
3. Dankar, O., Chahine, K., Tarnini, M., Moubayed, N., and El Ghaly, A., *Simulation of Neural Network-Based Model Predictive Control for Bidirectional EV Charging in Grid-Connected PV-Battery Systems*, *Proceedings of the Smart Grid & Energy Systems Conference (SGES)*, 2025.

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11. Professional development activities in the last five years

- Involved in design and supervision of implementation of a solar power-led street lighting project with MCA. Collaborated with stakeholders to assess project feasibility, select appropriate technologies, and oversee installation.
- Supervision of project Towards Sustainable Energy in collaboration of Baisour Municipality with Beirut Arab University.