



- 1. Name and Academic rank:** Abdallah El Ghaly, Assistant Professor, full-time at Beirut Arab University – Currently serving as an Assistant Dean for the Faculty of Engineering at Beirut Arab University

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

Ph.D., Electrical Engineering, Beirut Arab University 2022

M.S., Electrical Engineering, Beirut Arab University 2016

B.S., Electrical Engineering, Beirut Arab University, 2013

3. Academic experience

- Beirut Arab University, Assistant Professor, 2022- present, full time
- Beirut Arab University, Lecturer, 2019- 2022, full time

4. Non-academic experience

- Assistant Dean, Faculty of Engineering, Beirut Arab University, 2025-Present Full time.
- Consult sarl from 2013 till 2019. Electrical Engineer/Senior Electrical Engineer at Electrical design and Consultancy Company. Preparing electrical design drawings and calculations for different types of projects; residential, commercial, healthcare, and infrastructure

5. Certification or professional Registration

- Order of Engineering Lebanon

6. Current membership in professional organizations

- IEEE membership
- IEEE PES membership
- IEEE - Lebanon Joint Chapter, IE13/PE31/CAS04/PEL35 (CH08625)



7. Honors and Awards:

- Jamal Abdelnaser award- 1st place undergraduate studies- Beirut Arab University
- IEEE- ICRERA2022- Outstanding paper Award
- 2023-SAFAR- Grant research stay (2 months in Paris, France)

8. Service activities

- 2025 International Relations Committee Member- Beirut Arab University
- 2025 IEEE - Lebanon Joint Chapter, IE13/PE31/CAS04/PEL35 (Secretary)
- 2025 Post Graduate studies faculty committee member (Secretary)
- 2025 IEEE-IC2SPM 2024 conference session chair
- 2025 Reviewer at International Journal of Smart Grid
- 2024 IEEE-IC2SPM 2024 conference reviewer
- 2024 Reviewer at Results in Engineering
- 2024 Reviewer at IEEE Access
- 2024 Reviewer at Computers and Electrical Engineering-Elsevier
- 2024 Reviewer at International Journal of Renewable Energy Research
- 2023 Society service member-Beirut Arab University
- 2022 Laboratory Committee member-Beirut Arab University
- 2022 BAU Journal-Science and Technology- Reviewer
- 2022 IEEE-IC2SPM 2022 conference reviewer
- 2021-2022 Research Committee member-Beirut Arab University
- 2021-2022 BAU Engineering Entrance Exam coordinator
- 2021-2022 Management and operation of the energy system in Debbieh Campus-committee member- Beirut Arab university
- 2017-2018 ABET Advisory Board

9. Principal publications and presentations from the last five years:

9.1 Journal Publications



- **A. El Ghaly**, M. Tarnini, N. Moubayed, and K. Chahine, "A Filter-Less Time-Domain Method for Reference Signal Extraction in Shunt Active Power Filters," *Energies*, vol. 15, no. 15, p. 5568, Jul. 2022, doi: 10.3390/en15155568.
- K. Chahine, M. Tarnini, N. Moubayed, and **A. El Ghaly**, "Power Quality Enhancement of Grid-Connected Renewable Systems Using a Matrix-Pencil-Based Active Power Filter," *Sustainability*, vol. 15, no. 1, p. 887, Jan. 2023, doi: 10.3390/su15010887.
- M. Tarnini, M. Alsayed, **A. El Ghaly**, and K. Chahine, 'Towards Energy Sustainability in University Campuses: A Case Study of Beirut Arab University', *Sustainability*, vol. 15, no. 9, p. 7695, May 2023, doi: 10.3390/su15097695.
- M. Tarnini, K. Saab, **A. El Ghaly**, 'A Power Electronic Controller Based Algorithm for Output Power Prediction of a PV Panel', *IJRER*, no. V32i3, 2023, doi: 10.20508/ijrer.v13i3.13946.g8791.
- **A. El Ghaly**, M. Tarnini, Z. Al Barakeh, and K. Chahine, "Compensating voltage waveform distortions using a practical topology of series active power filters," *Results Eng.*, vol. 22, p. 102032, Jun. 2024, doi: 10.1016/j.rineng.2024.102032.
- **A. E. Ghaly** and M. Tarnini, "Simplified Control for Torque and Speed Ripple Mitigation in Brushless DC Motors," *International Journal of Smart Grid - ijSmartGrid*, vol. 8, no. 1, Art. no. 1, Mar. 2024.
- **A. El Ghaly**, M. Tarnini, and K. Chahine, "A robust reference extraction method for shunt active power filters in the presence of noise and source voltage distortion," *Measurement*, vol. 242, p. 116243, Jan. 2025, doi: 10.1016/j.measurement.2024.116243.
- **A. El Ghaly**, 'Hybrid ML Algorithm for Fault Classification in Transmission Lines Using Multi-Target Ensemble Classifier with Limited Data', *Eng*, vol. 6, no. 1, Art. no. 1, Jan. 2025, doi: 10.3390/eng6010004.
- O. Dankar, M. Tarnini, **A. El Ghaly**, N. Moubayed, and K. Chahine, "A Neural Network-Based Model Predictive Control for a Grid-Connected Photovoltaic–Battery System with Vehicle-to-Grid and Grid-to-Vehicle Operations," *Electricity*, vol. 6, no. 2, p. 32, Jun. 2025, doi: 10.3390/electricity6020032.
- M. Alsayed, M. Tarnini, M. E. Rafei, and **A. S. E. Ghaly**, "Single Input Double Output DC-DC Converter Topology Using a Band Stop Filter," *Int. J. Renew. Energy Res. IJRER*, vol. 15, no. 4, pp. 697–707, Dec. 2025.
- **A. El Ghaly**, A. Hamdan, and M. Tarnini, 'Stability analysis of photovoltaic grid-connected power systems employing virtual synchronous generator control', *Int. J. Power Electron. Drive Syst. IJPEDS*, vol. 17, no. 2, pp. 1451–1461, Jun. 2026, doi: 10.11591/ijpeds.v17.i2.pp1451-1461.
- **A. El Ghaly**, 'Investigating Bidirectional DC-DC Converters: Topologies, Control Algorithms, and Diverse Applications', *Int. J. Renew. Energy Res. IJRER*, vol. 16, no. 2, pp. 367–378, Jun. 2026.
- K. Chahine, M. Arnaout, M. Al Atem, **A. El Ghaly**, and H. N. Noura, "Robust Multi-Output Prediction of Perovskite Solar Cell Parameters via Multi-Task Learning," *Inventions*, vol. 11, no. 3, p. 59, Jun. 2026, doi: 10.3390/inventions11030059.

9.2 Conference Proceedings

- **A. E. Ghaly**, M. Tarnini, N. Moubayed, and K. Chahine, "Hybrid Active Power Filter Using a Filter-Less Extraction Technique," in *2022 11th International Conference on Renewable Energy Research and Application (ICRERA)*, Istanbul, Turkey, Sep. 2022, pp. 452–454. doi: 10.1109/ICRERA55966.2022.9922826.



- M. Tarnini, A. **El Ghaly**, and N. Moubayed, "SVPWM Inverters for Photovoltaic Systems Applications," in *2023 IEEE 4th International Multidisciplinary Conference on Engineering Technology (IMCET)*, Dec. 2023, pp. 144–149. doi: 10.1109/IMCET59736.2023.10368267.
- **A. El Ghaly** and M. Hmadi, 'Methodology Towards Low-Energy Building Design in Bchamoun Area - Lebanon Case Study', in *Sixth International Conference on Efficient Building Design, ASHRAE*, Feb. 2025. doi: 10.63044/eb24el8.
- W. Sarrieddine and **A. El Ghaly**, 'Power System Stability and Load Flow Analysis for a Grid-Tied Photovoltaic System: Lebanon Case Study', in *2024 International Conference on Smart Systems and Power Management (IC2SPM)*, Nov. 2024, pp. 50–55. doi: 10.1109/IC2SPM62723.2024.10841354.
- O. Dankar, M. Tarnini, **A. E. Ghaly**, N. Moubayed, and K. Chahine, 'A Grid-Tied Photovoltaic-Battery System for Bidirectional Electric Vehicle Charging', in *2025 15th International Conference on Electrical Engineering (ICEENG)*, May 2025, pp. 1–7. doi: 10.1109/ICEENG64546.2025.11031346.
- O. Dankar, M. Tarnini, **A. El Ghaly**, K. Chahine, and N. Moubayed, 'Simulation of Neural Network-Based Model Predictive Control for Bidirectional EV Charging in Grid-Connected PV-Battery Systems', in *2025 4th International Conference on Smart Grids and Energy Systems (SGES)*, July 2025, pp. 226–232. doi: 10.1109/SGES66701.2025.11155992.
- **A. El Ghaly**, H. N. Noura, and K. Chahine, 'DC Link Fault Diagnosis in Shunt Active Power Filter Using Machine Learning', in *2026 1st International Conference on Emerging Technologies and Engineering Systems (ICETES)*, Apr. 2026, pp. 67–71. doi: 10.1109/ICETES68504.2026.11518787.

10. Professional development activities in the last five years

- IEEE-ICRERA2022- Outstanding paper Award-Istanbul Turkey
- Design, study and supervision of the 500kW on-grid PV solar energy project at Beirut Arab University
- Reviewer in IEEE-IC2SPM 2022
- Reviewer in the BAU journal
- IEEE - Lebanon Joint Chapter, IE13/PE31/CAS04/PEL35 Committee member 2023 (CH08625)- Secretary
- Reviewer in IJRER journal
- Reviewer in Ijsmargrid journal
- Reviewer in Journal: Computers and Electrical Engineering-Elsevier
- Reviewer in Journal: Results in Engineering
- Reviewer in Journal: E-Prime
- Reviewer in Journal: IEEE Access
- Session Chair in IEEE-IC2SPM 2024
- Reviewer in Journal of Renewable Energy and Environment
- Reviewer in Scientific Reports



11. Student Activities

- 2026 Organizing technical Visit to To Egypt
- 2025 Organizing technical Visit to Matelec sal
- 2025 Securing Internships and job opportunities to students in local companies
- 2024 Organizing technical visit to Lebanon Cables
- 2024 Organizing technical visit to Ibrahim Abdelal hydro power plant.
- 2024 Providing technical tour for the power plant in Debbieh Campus BAU

12. Teaching Courses

- Electric Circuits I
- Electric Power System
- Electric Power System Analysis
- Electric Power System Protection
- Introduction to Renewable Energy
- Industrial Automation
- Electrical Design In Industrial and Commercial Buildings