



Mohammad Hamed Alghweri

Amman, Jordan | Main +962779070584 | Alt. +962777967322 | mohammadalghweri@yahoo.com

ELECTRICAL ENGINEER

Electrical Engineer specializing in renewable energy integration, green hydrogen, and Power-to-X systems. Experienced in hydrogen production modeling, techno-economic analysis, and decarbonization strategies for hard-to-abate sectors. Contributed to peer-reviewed journal publications and international conferences, with research focused on advancing Jordan's vision towards a green and low-carbon future.

CORE COMPETENCIES

- HOMER Software Analysis
- MATLAB Simulation
- COMSOL Software
- AI tools for Academic Research
- Research and Development
- Renewable Energy Systems
- Power Systems Analysis
- Green Hydrogen

PROFILES & PROJECTS

- LinkedIn: <https://linkedin.com/in/mohammad-althweri-098578170>
- Google Scholar: <https://scholar.google.com/citations?user=CkRJT78AAAAJ>
- Personal Website & Portfolio: <https://malghweri.site/>
- Green Hydrogen Potential Platform: <https://h2labgju.site/>
- Cite Out: <https://citeout.site/>

EXPERIENCE

Research and Teaching Assistant German Jordanian University	1.2025 - Present
Reviewer Elsevier	9.2025 - Present
Freelance Researcher	9.2023 - 11.2024
Content Moderator Advisor Concentrix	8.2021 - 8.2024
Customer Service Representative Extensya	3.2020 - 3.2021
Trainee Jordan Electric Power Company (JEPCO)	2018 - 2019

EDUCATION

Master's degree of science in electrical power engineering, Yarmouk University.	2021- 2024 Grade: Very Good
▪ Member of the Institute of Electrical and Electronics Engineers (IEEE). ▪ Member of Jordan Engineers Association (JEA). ▪ Research area: green hydrogen and renewable energy. ▪ Thesis title: Renewable energy integration to green hydrogen production, A comparative study with solar, wind, and hybrid sources.	
Bachelor's degree of science in electrical power engineering, AL-Balqa Applied University.	2014- 2019 Grade: Good

CONFERENCES & SYMPOSIA

- **Presenter**, 26th International Middle East Power Systems Conference (MEPCON), Aswan, Egypt. (Dec. 2025)
- **Attendee**, Green Hydrogen Summit Oman (GHSO), Muscat, Oman. (Dec. 2025)
- **Participant**, German-Jordanian Industry Hub, German Jordanian University Amman, Jordan. (Nov. 2025)
- **Participant**, Second Young Electrical Engineers Forum (SOFEE 2024), Jordan Engineers Association (JEA), Amman, Jordan. (Oct. 2024)

TRAINING COURSES

- Fusion solar certified installer - Huawei
- Smart PV inverter solar installer - Huawei
- Project management professional - The Hope International Company
- Python for non-programmers - LinkedIn training
- PV systems design using SketchUp - Jordan Engineers Training Centre (JEA)
- PV systems design using PVsyst – Acadeemi
- ISO 9001 - Jordan Engineers Training Centre (JEA)
- Low current - Jordan Engineers Training Centre (JEA)
- Green Hydrogen & Power to X. - International PtX Hub
- AVEVA process Simulation – AVEVA
- Gemini Certified Educator – Google
- Claude 101 – Anthropic

PUBLICATIONS

- Almuhtady, A.; Muhsen, H.; Hammad, B.; **Alghweri, M.**; Tarawneh, R. Decarbonizing Jordan's Transport Sector Pathway: A Scenario-Based Integration of Hydrogen Fuel Cell Buses into a Bus Rapid Transit Project. *Hydrogen* 2026, 7, 99. <https://doi.org/10.3390/hydrogen7030099>
- AL-Quraan, A., & **Alghweri, M.** (2026). Techno-Economic Evaluation of Hybrid Renewable Systems for Green Hydrogen Production and Utilization. *Results in Engineering*, 111080. <https://doi.org/10.1016/J.RINENG.2026.111080>
- Muhsen, H. & **Alghweri, M.** (2025). The Potential of Green Hydrogen in the Steel Industry: Towards Decarbonization of Jordan's Industrial Sectors. *IEEE*. <https://doi.org/10.1109/MEPCON66918.2026.11360238>
- Muhsen, H., **Alghweri, M.** Green hydrogen progress and future potential in Jordan for sustainable energy transition. *Discov Sustain* (2025). <https://doi.org/10.1007/s43621-025-02323-1>
- Muhsen, H.; Tarawneh, R.; **Alghweri, M.** Adapting International and Regional Green Hydrogen Regulations and Standards to the Jordanian Context. *Preprints* 2025. <https://doi.org/10.20944/preprints202509.2248.v1>
- **Alghweri, M.**, & AL-Khataybeh, R. (2024). Design and Analysis of off -Grid PV/Diesel System for Small Scale Factory Located in Wadi Rum, Jordan Using Homer Software. *Preprints*. <https://doi.org/10.20944/preprints202407.2550.v1>

LANGUAGES

- ARABIC - Native
- ENGLISH - Very Good

REFERENCES

- **Prof. Dr. Alaaldeen Al-Halhouli** - *President*, German Jordanian University. alaaldeen.alhalhouli@gju.edu.jo
- **Prof. Dr. Ayman Alquraan** – *Professor.*, Department of Electrical Power Engineering, Yarmouk University. aymanqran@yu.edu.jo
- **Prof. Dr. Hani Muhsen** – *Professor*, Department of Mechatronics Engineering, German Jordanian University. hani.mohsen@gju.edu.jo