



TAKWA SHAWKAT MANSOUR

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SUMMARY

I am an Electrical Engineer holding a master's degree in Power and Control, with a solid background in power systems, control theory, and energy efficiency. Currently, I serve as a Lecturer at Jadara University in the College of Technical Sciences, Department of Engineering. My expertise includes developing innovative electrical solutions, advancing sustainable energy technologies, and optimizing processes to achieve high performance and reliability. I have extensive experience in research, system design, and development. I am eager to further enhance my skills in teaching, curriculum development, and applied research, while contributing to impactful academic and industry projects. With a commitment to continuous learning and collaboration.

WORK EXPERIENCE

Lecturer, Technical College, Jadara University

Mar2025 - Present

- Responsible for teaching and coordinating courses in the field of Electric and Hybrid Vehicle Services.
- This specialisation focuses on the principles, operation, diagnostics, and maintenance of modern electric and hybrid transportation systems. My role involves:
- Delivering theoretical and practical instruction to diploma students.
- Preparing course materials, assessments, and laboratory exercises.
- Guiding students in developing technical skills relevant to sustainable vehicle technologies.
- Contributing to curriculum development and the continuous improvement of teaching methods.

Research Assistant, Jordan University of Science and Technology

Mar2024-Jul2025

- As a Research Assistant at Jordan University of Science and Technology, I collaborated closely with my research supervisor to contribute to various projects. My responsibilities included assisting in writing literature reviews for academic publications, designing electrical circuits, and simulating them for research purposes. Through this role, I gained valuable experience in developing experimental setups and analyzing data, which enhanced my technical skills and understanding of electrical engineering principles.

Research and Development Engineer, Cardiff Academy

Nov2023-Feb2024

- As a research and development engineer in training, I gained expertise in experimental design, data analysis, and problem-solving. I look forward to applying these skills to new challenges in the future.

Design Engineer, Assawsaneh for Renewable Energy

Feb2018-Jun2018

- I worked as a trainee in the renewable energy industry. Designing both off-grid and on-grid systems was my job.

EDUCATION

M.S.C. in Power and Control Engineering, Jordan University of Science and Technology

Feb2020-Nov2023

- I hold a master's degree in electrical engineering with a specialization in Power and Control Engineering.
- My master's thesis proposed a hybrid offset voltage calibration technique for a dynamic compactor, titled "A Novel Hybrid Static Offset Voltage Calibration Technique for Dynamic Compactor Using Bulk Voltage and Shunt Current Trimming Techniques."

- I have a bachelor's degree in electrical power engineering
- During my graduation project, I developed a multi-charger power bank that can charge low-power electrical devices using various sources of electricity. The project involved creating a device that can produce voltage from four different sources, including photovoltaic (PV) cells, a mechanical movement, a DC battery, and a USB connection. The multi-charger power bank can provide voltage from any of these sources to charge low-power electrical devices

SKILLS

TECHNICAL SKILLS

- MATLAB
- Microsoft Office: Word, Excel, and PowerPoint
- PV-Syst
- AutoCAD
- Spice simulator
- Proteus
- ETAP

PERSONAL SKILLS

- Fast Learner
- Excellent Communication Skills
- Decision-Making, Multitasking
- Effective Time Management
- Analytical Thinking
- Problem-Solving Skills

LANGUAGE

Arabic: Native _____ English: Very good (B2 level)

CERTIFICATIONS

- Certificate of Reviewing from Elsevier for Computers & Electrical Engineering Journal (2024).
- Jordanian Engineers Association

PUBLICATIONS AND RESEARCH

- A novel hybrid static offset voltage calibration technique for dynamic comparators using bulk voltage and shunt current trimming techniques:<https://doi.org/10.1016/j.vlsi.2025.102365>