

Mohammed AbuDayyeh

Electrical Engineer

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Summary

I am an Electrical Engineer with a GPA of 3.35 and a "Very Good" grade. I focus on enhancing any workplace I am part of and always strive to boost productivity. I am organized, diligent, and possess excellent written, verbal, and interpersonal communication skills.

My background includes strong practical experience in renewable energy and control systems, along with hands-on experience in web programming using the MERN stack. I am skilled in electrical network simulation software and enjoy teamwork and collaboration.

Participating in various competitions has provided me with valuable insights and experiences. I am passionate about finding creative solutions to real-life problems and regularly volunteer to enhance my skills.

Work Experience

Coding Academy by Orange / AL-Zarqa, Jordan

1st December- May, 2025

Full Stack Web Development Trainee

- completed an intensive full-stack web development program with Simplon.co and Princess Sumaya University for Technology (PSUT).
- Gained practical experience with the MERN stack (MongoDB, Express.js, React.js, Node.js) through hands-on projects and coding challenges.
- Designed, developed, and deployed 10 responsive full-stack web applications, adhering to UI/UX best practices.
- Collaborated with team members on projects using Agile methodologies, ensuring the delivery of high-quality solutions within deadlines.
- Implemented Redux for efficient state management in React applications, enhancing performance and scalability.
- Prepared for the job market with a strong focus on local and international industry demands.
- Trained on cutting-edge web technologies and frameworks under the guidance of industry experts.

Layan company for Chemicals/ Amman, Jordan

18th April-12th September,2024

Maintenance Engineer

- Ensured continuous monitoring and maintenance of filling machines to uphold high-quality production standards.
- Conducted scheduled maintenance of all factory equipment, including water pumps, calibration of scales and load cell systems, and air compressors.
- Performed maintenance and installation of electrical power panels.
- Monitored and maintained the main water treatment unit for the company.
- Executed regular follow-up and maintenance on conveyors, including motors, gearboxes, and inverters.

National Electric Power Company (NEPCO)

9th July - 31st August, 2023

Trainee

During my training at NEPCO, I completed practical courses on eight topics:

- Transformer Testing and Maintenance
- MV Switchgear and Operation
- AC Motor Control

- Specification of Transmission and Distribution Networks
- PLC
- Transmission Lines Simulator and High Voltage Laboratory
- House Wiring Fundamentals
- Medium Voltage Cable Size Selection and Testing

Strengths and Skills

- Teamwork
- Classic Control
- Arduino IDE
- PCB Design (EasyEDA)
- ETAP Software
- Public Relations Skills
- PVSYST Software
- MATLAB (Simulink)
- 3D Printing

Education and Academic Contributions

Bachelor's of Electrical Engineering (Power & Control)

The Hashemite University — September 2019 - February 2024

Research and Publications:

- **Enhancing Cyber-Physical Threat Assessment in Power Distribution Networks**

Published in the 2023 11th International Conference on ENERGY and ENVIRONMENT (CIEM).

Link: <https://ieeexplore.ieee.org/document/10349721>

- **Smart Grid Resilience for Grid-Connected PV and Protection Systems under Cyber Threat**

Published in the Smart Cities Journal.

Link: <https://www.mdpi.com/2624-6511/7/1/3>

Graduation Project:

I achieved an A+ grade for conducting a comprehensive cyber-physical threat analysis on the power grid of Hashemite University. The project involved using ETAP to model the power grid and MATLAB to simulate the integrated solar system. The primary focus was to assess the potential damage of cyber-physical attacks on the university's power infrastructure. For more details, visit the [Cyberssgridhub](#) website

Languages

- **Arabic** (native)
- **English** -B1. Level

Courses

Full Stack Web Development	Orange Company	(December 1 - May, 2025)
PV SCADA System Course	Philadelphia Solar	(October 8 - 12, 2023)
O&M PV System Course	Philadelphia Solar	(October 16 - 24, 2023)
Digital Fabrication Course	Orange Company	(February 6 - March 20, 2023)

Voluntary work

- Volunteer (PR and Projects coordinator)
IEEE Jordan Section SIGHT, Jordan
Mar 2024- Present
- PR((Public Relation)
IEEE MESYP Conference , Jordan
Sep,2023-Feb,2024

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| • Volunteer (PR and EC(event coordintor))
IEEE Jordan RAS Chapter , Jordan | Sep,2022-Jun,2023 |
| • PR((Public Relations)
Hult Prize, HU | Oct,2022 – Mar,2023 |
| • Event coordinator
IEEE CSC (Computer Society Chapter), HU
Technical Support | Aug,2021 -Aug,2022 |

Awards:

- **Firefighting Challenge 2022(Jordan)** -Third place
- **Ball collector challenge 2021(HU)** – second place