

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 strive to develop any workplace I am part of and give my best to enhance productivity. I am organized, and diligent and possess excellent written, oral, and interpersonal communication skills. My background includes strong learning and practical experience, particularly in renewable energy and control systems. I have hands-on experience with robotics, utilizing VEX V5, EV3, and Arduino. I am skilled in electrical network simulation software and enjoy teamwork and collaboration. My participation in several competitions has provided me with valuable insights and experiences. I am passionate about finding creative solutions to real-life problems and volunteer regularly to improve my skills.

Work Experience

Layan company for Chemicals/ Amman, Jordan

18th April-21st 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.

Sama Food Industries / Amman, Jordan

10th March -17th April, 2024

Trainee

- Ensured continuous monitoring and maintenance of Krones and Smigroup machines to maintain high-quality production standards.
- Monitored and maintained the main electrical power panels.

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 | • Public Relations Skills |
| • Classic Control | • Zelio Soft (Smart Relays) |
| • Arduino IDE | • PVSYST Software |
| • PCB Design (EasyEDA) | • MATLAB (Simulink) |
| • ETAP Software | • 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

PV SCADA System Course	Philadelphia Solar	(8th–12th Oct, 2023)
O&M PV System Course	Philadelphia Solar	(16th–24th Oct, 2023)
Digital Fabrication Course	Orange Company	(6th Feb - 20th Mar, 2023)

Voluntary work

- | | |
|---|---------------------|
| • Volunteer (PR and Projects coordintor)
IEEE Jordan Section SIGHT , Jordan | Mar,2024- Present |
| • PR((Public Relation)
IEEE MESYP Confernce , Jordan | Sep,2023-Feb,2024 |
| • Volunteer (PR and EC(event coordintor))
IEEE Jordan RAS Chapter , Jordan | Sep,2022-Jun,2023 |
| • PR((Public Relation)
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