

Mohamed Nasrallah M. Afash

Electrical Engineer

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Career Objective

Electrical Engineer with practical experience in industrial electrical systems and power generation projects, aiming to join a structured and technically driven organization that values engineering discipline, teamwork, and continuous improvement. I seek an environment that encourages learning, system-level understanding, and professional growth, where I can contribute to real-world engineering challenges while developing into a highly competent and reliable electrical engineer.

Education

Islamic University of Medina

Jan 2021-June 2025

- Bachelor of Science in Electrical Engineering
- GPA: 4.08 out of 5 (B+)

Senior Design Project

- Led a team and successfully designed and constructed a Hybrid Vehicle Model
- Designed a regenerative system and controlled energy flow
- Designed a battery management system for battery protection

Courses Projects

- Control systems: Designed Automatic sorting robot on conveyor belt.
- Power systems: Simulated a power factor correction for power grid using MATLAB.
- Artificial Intelligence: Designed face identification system using ANN, developed climate control optimizer, and Fuzzy controller for heart pump operation.

Experience

H. M. Al-Mahroos L.L.C. | Jeddah, Saudi Arabia

June 2024 - August 2024

Internship: Electrical Engineer

- Training Program in Diesel Engines and Generators
- Completed intensive 360 hours in operations, service and maintenance
- Worked on ECU firmware recovery and electrical diagnostics of diesel engine systems
- Supported administrative tasks and coordinated documentation for service processes

HAMA Industry (Alhajaj & Almahroos Ind-Co.) | Jeddah, Saudi Arabia Nov 2025 – Present

Role: Electrical/Commission Engineer

- Participated in power system restoration and investigation following a three-phase fault at the main distribution board, including fault isolation, system re-energization, and verification of protection coordination. Conducted fault analysis and power protection review for low-voltage distribution systems.
 - Established and verified parallel generator operation using *ComAp IntelliGen* controllers, including CAN communication setup, controller configuration, load sharing logic, and priority/rotation settings. Performed controller configuration and diagnostics, with hands-on experience in setpoints, protections, alarms, logs, and system monitoring.
 - Actively involved in diesel generator installation and commissioning, including mechanical–electrical interface checks, auxiliary systems verification, and no-load operational testing.
 - Analyzed and interpreted electrical schematics, control diagrams, and wiring layouts for generator control panels, MDBs, MCCs, and auxiliary systems. Inspected and verified generator circuit breakers (ACBs), CT/VT connections, and protection logic as part of commissioning and system readiness checks. Contributed to control panel understanding and construction, including tracing wiring, identifying I/O functions, and validating control logic for generators and industrial systems.
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Courses

Systems & Equipment Grounding	15 Feb 2024
Communication Skills	16 Feb 2024
Life Ambassador First-Aid	16 Feb 2025
Power System Analysis	29 Feb 2025
Time Management	25 June 2025

- Participated in the installation and commissioning of HORIBA DT dynamometer systems, including electrical integration, power distribution, and preparation for operational testing.
 - Attended technical training for dynamometer operation and system handling, covering safe operation, system monitoring, and testbench functionality. (*Formal certification pending*)
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Skills

Language

- Native Arabic speaker
- Advanced English - Scored 80% in STEP Exam (\approx 500 in TOEFL)
- Skilled in technical writing and professional communication

Software

- Microsoft Office (Word, Excel, PowerPoint)
- NI Multisim – Circuit design, analysis, and simulation
- MATLAB & Simulink – Project modelling and signal processing
- PSCAD, Fritzing, Proteus – Basic PCB and power system simulation
- AutoCAD – 2D drafting and basic 3D design
- Programming – C++, Python; able to use various IDEs

All Certifications are available upon request.