

Ahmed Alhazmi

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PROFESSIONAL PROFILE

Electrical Engineer with a solid foundation in power systems, protection fundamentals, and industrial control with hands-on field experience at Petro Rabigh. Experienced in electrical maintenance, system monitoring, and performance analysis, with a fundamental understanding of planning, scheduling, and coordination within engineering environments. Academic exposure to renewable energy systems through a graduation project focused on designing and simulating a large-scale solar power system using MATLAB/Simulink. Known for technical accuracy, teamwork, and adaptability across diverse engineering challenges.

PROFESSIONAL EXPERIENCE

Petro Rabigh | Saudi Arabia

Electrical Engineer Trainee | June 2024 – August 2024.

Role Overview

Supported maintenance and operational activities for power distribution, protection systems, and backup electrical units within a high-reliability industrial environment.

Key Achievements

- Contributed to system readiness through scheduled preventive maintenance in line with operational procedures.
- Supported operations and maintenance teams through accurate diagnostic testing and clear technical reporting activities.

Core Responsibilities

- Performed preventive maintenance on transformers, generators, and battery systems according to engineering plan.
- Conducted insulation resistance, polarization index, and inrush current tests to verify equipment health.
- Troubleshoot breaker issues, including spring faults and moisture-related problems.
- Supported power system monitoring, work permit procedures, and compliance with safety standards.
- Participated in weekly engineering sessions on distribution systems, backup units, and electrical protection.

ACADEMIC BACKGROUND

Taibah University | Saudi Arabia

Bachelor's Degree in Electrical Engineering | GPA: 4.68 / 5 with Second Class Honors | 2025.

- Studied core electrical engineering subjects including power systems, electronics, machines and control.
- Completed multiple laboratory sessions focused on electrical testing and hands-on technical applications.
- Gained strong proficiency in circuit analysis, renewable energy concepts, and MATLAB/Simulink simulations.

ENGINEERING PROJECTS

Graduation Project | Integrating Solar Power into Electric Railways

- Designed and modeled a 1 MW PV power system for railway applications using MATLAB/Simulink.
- Developed MPPT-controlled DC-DC converter and inverter integration.
- Performed load analysis and evaluated system performance under different operating conditions.

CERTIFICATIONS & COURSES

- Power Electronics | Udemy | 2025.
- Power System Protection | Udemy | 2025.
- Electrical Controls & Diagram Reading | Udemy | 2025.
- Primavera P6 Professional – Project Planning | Udemy | 2025.
- Electrical Design for Buildings (AutoCAD, DIALux, ETAP) | Udemy | in progress 2025.

LICENSES

Professional Accreditation | Electrical Engineering | Saudi Council of Engineers | August 2025 – August 2028.

SKILLS

Power & Protection Skills:

- Power Systems Analysis.
- Electrical Protection Fundamentals.
- Testing & Commissioning.
- Industrial Electrical Equipment.

Software & Tools:

- MATLAB & Simulink.
- Python (Basic Engineering Use).
- Primavera P6.
- Microsoft Office Suite.

Control & Automation Skills:

- Electrical Control Systems.
- Sensors & Signal Basics.
- Circuit Troubleshooting.
- System Monitoring & Diagnostics.

Professional Skills:

- Problem Solving.
- Communication.
- Team Collaboration.
- Technical Reporting.

LANGUAGES

- Arabic.
- English.