

MUNIRAH ALQAHTANI

Electrical Engineering Graduate

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PROFESSIONAL SUMMARY

Electrical Engineering graduate with an academic background in power systems, electrical circuits, electrical networks, and energy engineering. Gained practical exposure to the oil and gas industry through industrial training at SLB (Schlumberger), including performance monitoring, operations support, and integrity monitoring. Completed a graduation project focused on an Arduino-based automated watering system, applying control logic, sensors, and real-time monitoring. Familiar with ETAP, power distribution, circuit analysis, PLC-based systems, and preventive maintenance. Seeking an entry-level role in electrical, energy, oil and gas, or industrial engineering sectors.

Education

Bachelor's Degree in Electrical Engineering

University of Hafar Al-Batin (UHB)

Graduation Project

Automatic Watering System Using Arduino

University of Hafr Al Batin – College of Engineering | May 2025

- Designed and implemented an automated irrigation system using Arduino Uno and soil moisture sensors.
- Developed real-time control logic to activate water pumps based on soil moisture thresholds.
- Integrated relay modules and LCD display for monitoring and system feedback.
- Achieved improved water efficiency and reduced manual intervention.
- Focused on a low-cost, scalable, and eco-friendly solution suitable for agricultural applications

WORK EXPERIENCE

Co-op Trainee

SLB (Schlumberger), Saudi Arabia — June 2024 – January 2025

Well construction measurement | WCM | SLB

- Rotated across three key departments to gain hands-on experience in the oil and gas sector:
- Performance Live Center (PLC – Performance Monitoring) Assisted in monitoring real-time operational data to optimize performance and ensure efficiency in field operations.
- Operations Support Center (OSC): Provided technical and administrative support to field teams, ensuring smooth coordination and timely issue resolution.
- Operation Integrity Center (OIC): Supported integrity monitoring processes to ensure compliance with safety and operational standards.
- Collaborated with multidisciplinary teams to solve operational challenges and enhance system performance.
- Gained valuable insights into data-driven decision-making and operational workflows in the energy sector.

PROFESSIONAL SKILLS

TECHNICAL SKILLS

- Power Systems: ETAP, power distribution, load flow analysis
- Automation & Control: PLC basics, Arduino, control logic
- Simulation Software: ETAP, PSIM, PSpice, LTspice, Multisim
- Programming: Python, MATLAB, C/C++
- Electrical Tools: Multimeters, testing & calibration equipment
- Maintenance: Preventive maintenance, troubleshooting
- Documentation: Technical reports, operational documentation