

# Mohammed AL-Sageer

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## EDUCATION

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**Jazan University** | Jazan, Saudi Arabia  
Bachelor of Chemical Engineering

May 2025

## EXPERIENCE

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**Energy & Water Academy (EWA)** | Rabigh , Saudi Arabia

*ACWA Power sponsored engineering training program*

July 2025 – September 2025

- **Pump Operation & Troubleshooting:** Performance optimization, diagnostics, and maintenance.
- **Valve Operation & Troubleshooting:** Control, safety applications, and failure prevention.
- **Hydraulic Circuits:** Design principles, system analysis, and fault detection.
- **RO Desalination:** Operation, monitoring, and efficiency enhancement.
- **Scaling & Corrosion:** Control methods, preventive strategies, and system protection.
- **SCADA Systems:** for industrial process monitoring and control, integrating:
  - SIS – Safety Instrumented System: automated safety measures within SCADA.
  - DCS – Distributed Control System: coordinated process management under SCADA supervision.
  - PLC – Programmable Logic Controller: precise machinery control linked to SCADA operations.
- **Electrical Troubleshooting:** Detection, analysis, and maintenance of electrical faults.
- **Photovoltaic (PV) System Design:** Solar system sizing, design, and implementation

**National Water Company (NWC)** | Najran , Saudi Arabia

*Chemical Engineering Intern*

June 2024 – August 2024

- Participated in the operation and maintenance of water treatment facilities.
- Monitored water quality parameters and reported daily findings.
- Prepared technical reports to support operational decision-making.
- Ensured implementation of safety protocols across multiple departments.
- Promoted a safety-first culture and ensured compliance with regulations.
- Participated in initiatives to enhance operational efficiency and reduce waste.
- Collaborated with multidisciplinary teams to identify process bottlenecks.
- Supported the integration of sustainable practices, resulting in measurable performance improvements.

## **TRAINING COURSES**

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- Desalination and Renewable Energy (160 hours)
- Occupational Safety and Health
- Design Thinking
- Introduction to Project Management
- PMP Professional Preparation
- Project Communication Management
- OSHA (General Industry Safety and Health)
- Project Quality Management
- Industrial Occupational Health And Safety
- Safety Management System Operation Level FMS
- Green project manager (GPM-B)

## **SKILLS**

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- Knowledge of water and wastewater treatment processes.
- Ability to design and analyze chemical processes.
- Proficient in engineering simulation software (Aspen HYSYS, MATLAB ,SCADA).
- Supervision of safety and quality procedures.
- Strong problem-solving and decision-making skills.
- Excellent teamwork and communication abilities.