
BADER ALGHAMMAS

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PROFESSIONAL SUMMARY

Ambitious Chemical Engineer and a hard worker, eager to apply my knowledge to real-world challenges, and contribute to the field of chemical engineering with my technical and analytical skills.

EDUCATION

Bachelor of Science: Chemical Engineering, 06/2024
University of Jeddah - Jeddah

CERTIFICATIONS

- Saudi Council of Engineers (SCE), Engineer
- Critical Thinking for the Information Age, University of Michigan
- Communicating Effectively in Groups, University of Colorado, Boulder
- Labour of Law, Taqat
- Work Ethics, Taqat

SKILLS

- Microsoft Office
- Problem-solving
- Team leadership
- Creative Decisions
- Quality assurance
- Quality control testing
- Quality inspection planning
- Process control
- Wastewater treatment processes
- Reverse osmosis systems operation

EXPERIENCES

O&M Engineer, 02/2025 - Current

Metito - KAEC

- Prepare comprehensive production reports, including tracking productivity, efficiency, and utilization and comparing them across shifts and months.
- Led team meetings, fostering effective communication amongst teams.

Quality Engineer, 11/2024 - 02/2025

Alsad Beverage - Jeddah

- Performed rigorous testing of raw, reverse osmosis (RO), and product water to ensure compliance with purity and safety standards.
- Conducted quality assurance inspections on packaging materials, including preforms, caps, labels and cartons, to maintain product integrity.
- Executed daily operational checklists to monitor production processes, storage conditions, RO system performance, and personnel adherence to protocols.

Operation Engineer Internship, 07/2023 - 09/2023

Saline Water Conversion Corporation SWCC - Shuaiba

- Trained in Multi-Stage Flash Distillation (MSF) and Reverse Osmosis (RO) plant operations, ensuring adherence to safety protocols, efficiency standards, and regulatory compliance.
- Monitored and optimised General Control Room operations, overseeing auxiliary systems, water treatment processes, thermal department workflows, and real-time system diagnostics.
- Executed dual media filters (DMF) backwash procedures to maintain filtration efficiency and prevent system contamination.
- Performed routine compressor and dryer changeovers to ensure uninterrupted operations, and minimise downtime in critical systems.

PROJECTS

The investigation of performance & development of a commercial sodium-ion battery using brine from seawater desalination as an electrolyte.