

ABDESLEM CHELGHOU

Mechanical Engineer

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PROFESSIONAL SUMMARY

Mechanical Engineer with practical smart-metering experience at AALCO in Qatar, including M-Bus communication, NFC tools and handheld unit (HHU) applications. Background spans oil and gas, utilities, power generation and water treatment, supported by a Master's degree in Mechanical Engineering. Offers field inspection, troubleshooting and technical reporting skills relevant to mechanical, energy, utilities and commissioning support roles.

TECHNICAL SKILLS

Smart metering: Advanced Metering Infrastructure (AMI) field operations, smart water meters, M-Bus communication, NFC tools, HHU applications and meter data checks.

Mechanical and energy: Mechanical maintenance, rotating equipment, gas turbines, bulk water metering, water treatment, mechanical filtration and HVAC fundamentals.

Field operations: Site inspections, communication-signal checks, troubleshooting support, fault reporting, corrective-action follow-up, technical documentation and HSE procedures.

PROFESSIONAL EXPERIENCE

AALCO - Al Ajjaj Limited Company WLL | Qatar

Mechanical Engineer | June 2025 - Present

- Support smart water meter installation, inspection, troubleshooting and operational follow-up for AMI field activities.
- Work with M-Bus communication and use HHU applications, NFC tools and Itron applications for meter data and communication-status checks.
- Completed meter communication and signal checks for more than 10,000 cases, supporting fault identification, documentation and corrective-action follow-up.
- Rectify assigned meters using NFC tools, capture communication signals and document field findings for review by the AMI team.
- Contribute to bulk metering activities, with exposure to Siemens MAG 8000 electromagnetic flow meters and their communication requirements.
- Prepare field updates and supporting technical files, coordinate site visits and escalate unresolved observations to project teams.

EARLIER ENGINEERING EXPERIENCE

AMENHYD | Water Treatment and Metering

Practical Training | 2024

- Gained practical exposure to water meter types, sizes, applications and installation methods for domestic and bulk metering.
- Developed knowledge of meter accuracy testing, common meter complaints and replacement-related issues.
- Gained exposure to water purification and wastewater treatment, including chemical and mechanical filtration, maintenance and quality-control analysis.

SONELGAZ | Utilities and Energy

2023

- Observed and supported gas turbine operation, performance monitoring and preventive maintenance activities.
- Assisted with mechanical fault diagnosis involving rotating equipment and turbine components.
- Contributed to efficiency analysis and developed understanding of fuel combustion and its effect on power generation performance.

SONATRACH | Oil and Gas

2022

- Supported engineering teams in monitoring well-drilling and petroleum extraction activities.
- Participated in drilling-site inspections, risk assessments and hazard-control activities while following health, safety and environmental procedures.

EDUCATION

Master's Degree in Mechanical Engineering

University of Science and Technology Houari Boumediene (USTHB)

Bachelor's Degree

Ferhat Abbas University

SOFTWARE AND DIGITAL TOOLS

Microsoft Excel, Word and PowerPoint | SolidWorks | MATLAB | HHU and Itron applications | NFC meter tools

LANGUAGES

Arabic: Native | English: Upper-Intermediate | French: Professional

ADDITIONAL INFORMATION

Nationality: Algerian | Valid Qatar ID | Valid Qatar driving licence