

# MUHANNAD ALGHAMDI



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Saudi Arabia



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Innovative Mechanical Engineer offering a passion for leading product design projects. Excellent communicator explaining complex design ideas and concepts effectively. Experienced in hardware and software design, theories of operation, system integration, installation, and commissioning. Quick-learning and resourceful.

## EDUCATION

### Mechanical Engineering

King Abdulaziz University, Saudi Arabia  
2013-2018

## COURSES

Course of Project Management  
Professional - PMP +30 hrs

Aug 2022

ET

Certified Maintenance & Reliability  
Professional - CMRP

Jun 2022

SMRP

Basic Pump Theory

Aug 2020

GRUNDFOS

Distributed Pumping – The Paradigm Shift  
in Chilled Water Pumping

Sep 2020

GRUNDFOS

## MOST PROUD OF

- Re-design one of the crucial tunnels to reduce cost and risk.
- Creating a system to develop inventory tracking spreadsheets.
- Supervised team of 15 staff members.
- Lead and directed a team on a large-scale mechanical installation project for a theater and performance facility.

## WORK EXPERIENCE

### Mechanical Engineer

Alkhorayef Water & Power Technologies, Saudi Arabia  
Dec 2021 - Present -

- Attending government project planning meetings to coordinate mechanical system designs with structural and architecture teams, mitigate design conflicts, and coordinate delivery timelines.
- Brainstorming with product designers to implement and refine new manufacturing processes.
- Reviewing progress controls for project quality assurance, health, and safety.
- Evaluating the final product's overall performance, reliability, and safety.
- Completing daily construction tasks while providing safe working conditions, staying on budget, and meeting project deadlines.
- Designing budgets and cost estimates for projects with speed and accuracy while working closely with clients, drafters, and employees to determine the best courses of action.
- Evaluating install mechanical equipment and systems to isolate faults and implement corrective action.
- Providing on-site engineering and technical services during installation and fielding processes.

### Mechanical Maintenance Engineer

National Water Company, Saudi Arabia  
Oct 2018 - Dec 2021

- Performed installations, maintenance, and repairs of mechanical equipment.
- Developed preventive maintenance programs to avoid any shut-downs.
- Performed root cause of equipment failures and provide corrective actions.
- Evaluated employee performance and provide appropriate feedback.
- Assisted in setting-up production facility, equipment, and materials for new projects.
- Interpreted technical specifications and engineering drawings to perform equipment installations.
- Performed field walk-downs of proposed installation sites, inspecting facilities for potential issues.
- Inspected components such as bearings, gaskets, and coupler assemblies to determine necessary repairs.
- Maintained adequate inventory of spare parts to prevent critical downtime.
- Supervised installation of different types of mechanical equipment, keeping work in line with drawings and specifications.

## PROJECTS

- Retrofitting a Gasoline Engine to Operate on LPG ( Senior Project ).
- Electromechanical Support Maintenance Project.
- Rehabilitation of Stations National Water Company .
- Transmission Standby Power Stations in NWC.
- Replace the pumps between stations.