

Mustafa Alghawi

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Dammam, Saudi Arabia

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Objective

Dedicated Mechanical Engineer with a strong foundation in mechanical systems and skilled in heat exchange and mechanical design. Committed to delivering high-quality solutions and contributing to organizational success through engineering excellence and efficiency. Seeking a challenging role to leverage expertise in design, analysis, and innovation, making a positive and lasting impact on the company's success.

Education

Bachelor's Degree of Arts and Science in Mechanical Engineering

University of Michigan - Flint | Dec 2022

Experience

Mechanical Engineer

Gulf Water Construction | Oct 2023 - Present

- Develop plans and layouts for mechanical systems, machinery, and components, considering functionality and safety.
- Choose appropriate materials based on mechanical properties, cost, and environmental factors.
- Create and test prototypes to evaluate design concepts and identify potential improvements.
- Collaborate with manufacturing teams to ensure products are built to specifications and troubleshoot any production issues.
- Implement quality control procedures to ensure that mechanical products and systems meet industry standards and regulations.
- Analyze and resolve technical issues in mechanical systems and processes.
- Manage projects, including budgeting, scheduling, and resource allocation, to ensure timely and cost-effective delivery.

Skills

- Manufacturing Processes
- Welding
- Heat Exchanging
- Mechanical Design
- Thermal Analysis
- Engineering Software
- SolidWorks
- AutoCAD
- C++
- Python
- Teamwork
- Problem Solving
- Data Analysis
- Attention to Detail
- Communication
- Time Management
- Microsoft Office
- Organization

Projects

- **Plumbing**
- **Waste Water Treatment**
- **Rain Water Collection**
- **Sewage Treatment Plant**
- **3D Printer Prototype | University of Michigan - Flint | Jan 2022 - Dec 2022**
Designed a 3D printer prototype, reducing production costs by 75% and increasing efficiency by 50%.
- **Water Pump Design | University of Michigan - Flint | Jan 2022 - Apr 2022**
Successfully designed, built, and tested a water pump, meeting project objectives.

Courses

- Six Sigma White Belt
- General Industry | Occupational Safety and Health (OSHA)

Memberships

- Saudi Council of Engineers | Aug 2023

Languages

- Arabic: Native
- English: Advanced