

Mohammed Aldawood

Urobah, Safwa, Eastern Province, 32833 * (054) 002-5538 * mohd94hameed@gmail.com

CAREER OBJECTIVE

Hard-working professional with 5.5+ years of experience and a proven knowledge of research and development, project planning, and facilities engineering. Aiming to leverage my skills to successfully fill the Mechanical Engineer role at your company.

EXPERIENCE

CHINA GEO-ENGINEERING CORPORATION , Al Jubail , Eastern Province

Mechanical Engineer, Feb 2021 - Present

- Preparing designs and plans for mechanical engineering projects, such as generators, turbines, air-conditioning units, boilers, and distribution networks for heating, air-conditioning and refrigeration systems.
- Preparing plans and programs for assembling and installing mechanical equipment for industrial projects, and defining control and control systems for industrial projects.
- Developing work methods and procedures and keeping pace with technical developments.
- Preparing equipment operating programs and preventive maintenance programs according to the manufacturers' instructions and following up on their implementation procedures.
- Preparing documents and reports specialized in engineering work and projects and their percentages of progress, presenting them, clarifying them and saving them in their database in accordance with the approved policies and procedures.
- Provided technical support during manufacturing and assembly of prototypes.

KING ABDULAZIZ UNIVERSITY , Jeddah, Makkah

Senior Project Engineer, Jan 2020 - Jan 2021

- Design and Testing of Savonius Vertical Axis Wind Turbine.
- Developed and delivered progress reports, proposals, requirements documentation and presentations.
- Ensured smooth transition of projects from construction to operations.
- Utilized excellent written and oral communications and team skills.
- Produced regular written project status reports and lead project team meetings.
- Wrote technical reports on results from experiments conducted and incorporated findings in solutions.
- Generated performance measurement monthly reports for management team.
- Established project requirements, priorities and deadlines.
- Performed preliminary engineering and defined scope.
- Established and communicated team performance expectations and guidelines.

Operation and Maintenance Engineer, Jun 2019 - Aug 2019

- Preparing designs and plans for mechanical engineering projects and works, preparing programs for assembling, installing and operating mechanical equipment in industrial projects, preparing industrial equipment operating programs and preventive maintenance programs, and preparing specialized documents and reports on business results.

SAUDI ARAMCO, Dhahran, Eastern Province

Petroleum Engineer, Sep 2012 - Aug 2016

EDUCATION

KING ABDULAZIZ UNIVERSITY

Jeddah, Makkah

Bachelor of Science (B.S.) Mechanical Engineering (May 2020)

- **GPA:** 3.84
- **Relevant Coursework:**
- Design of Heat Exchangers: Classification of Heat Exchangers, Design Correlations and Fouling, Basic Thermal Design Methods and Iterative Techniques, Double-Pipe Heat Exchangers, Shell-and-tube Heat Exchangers, Compact Heat Exchanger.
- Turbomachinery and Gas Turbine: Fluid mechanics and energy transfer in turbo – machines, Centrifugal and axial compressors. Centrifugal and axial flow turbines. Applications, including industrial gas turbine engines and aircraft Engines.
- Pumps and Hydraulics • Thesis: Pumps, Pumps types, Pump components, Pumps characteristics Curves. Systems Curves. Pumps Selections, Pumps connections: series and parallel. Hydraulics cycles. Design project.
- Internal Combustion • Thesis: Spark ignition and compression ignition engine types, design and operating parameters; thermo Chemistry of fuel-air mixture and thermodynamic models of working fluids and engine cycles. Gas Exchange processes and volumetric efficiency.
- Thermal Desalination • Thesis: Electrolytic solutions, colligative properties, chemical treatment, venting. Multiple effect systems (MED), Multistage-flashing systems (MSF), Vapor compression systems VC, Dual-purpose plants (DPP), Introduction to corrosion, Computer applications.
- Membrane Desalination • Thesis: Intake, pumping, Filtration, ion exchange, pretreatment, Membranes, Membrane technology, Reverse Osmosis systems (RO), principles, system design, RO membranes characteristics. Electro dialysis (ED), Other membrane processes, introduction to fouling, Computer applications.
- Power Plants • Thesis: Energy demand and power generation systems. Steam and gas power cycles. Fuels and combustion. Basic and auxiliary systems of a steam p.p. Steam generator analysis. Steam turbines and their controls. Diesel engine and gas turbine power plants. Overall plant performance. Economics of power plants.
- Refrigeration and Air Conditioning • Thesis: Psychrometric and psychometric processes. Human comfort. Heat gain-through walls and Fenestrations. Cooling load calculations. Calculation using software packages

UNIVERSITY OF TULSA

Tulsa, OK

Completed coursework towards Bachelor of Science (B.S.) Petroleum Engineering (Aug 2016)

- **GPA:** 3.26
- **Relevant Coursework:**
- Reservoir Engineering • Thesis: Volumetrics, determination of fluid contacts, gas reservoirs material balance, oil reservoirs Material balance, diffusivity equation, inflow performance relationships, water influx, pressure transient Analysis. Phase behavior and PVT properties of dry, wet and retrograde condensate natural gases, as well As volatile and black oils; property estimation using correlations; flash and differential vaporization; Introduction to gas-liquid equilibria; properties of oilfield water; gas hydrates and their prevention.
- Production Engineering • Thesis: Inflow performance relationships, single and multiphase flow in pipes, components of production System, basics of fluid separation and treatment, and analysis and optimization of production systems.
- Heat Transfer , Fluid Mechanics , Fluid Properties , Mechanics of Materials , Thermodynamics
- **Awards & Honors:** Dean's List

SAUDI ARAMCO

Dhahran , Eastern Province

College Degree Program for Non-Employee Petroleum Engineering (Jun 2013)

- **GPA:** 3.02
- **Relevant Coursework:** AP Chemistry , AP Calculus

SAFWA HIGH SCHOOL

Safwa , Eastern Province

High School Diploma (Sep 2012)

- **GPA:** 99.70

- **Awards & Honors:** Dean's List
- **Extracurricular Activities:** Qiyas Ram 1: Grade '97', Qiyas Ram 2 : Grade '93'

ADDITIONAL SKILLS

- Research and Development
- Critical Thinking
- Working under Pressure
- Problem Solving
- Mathematical Modelling
- Data Analysis
- Computer Applications
- Science and Technology
- Project Engineering
- Thermal Engineering
- Site Engineering
- Petroleum Engineering
- Mechanical Engineering

CERTIFICATIONS

- Mechanical Engineer/ Saudi Council for Engineer #754429