



# MANSOUR MAKHATREH

## MECHANICAL ENGINEER

### CAREER OBJECTIVE

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Motivated and passionate mechanical engineering graduate seeking an entry-level position in a dynamic and innovative company. Committed to applying my strong theoretical foundation and practical skills to contribute to the design, development, and optimization of mechanical systems. Eager to learn and grow in a challenging and collaborative environment while actively contributing to the success of the organization.


### WORK EXPERIENCE


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#### King Abdullah University Hospital

Mar 2023 - Jun 2023

- Demonstrated understanding of air conditioning and heating systems in the hospital, including Air Handling Units (AHUs), for various areas such as operating rooms and intensive care units.
- Identified and comprehended the functionality of units (FCU) and (AHU) as well as the pumps responsible for water circulation in boilers and chillers.
- Acquired knowledge of cooling systems to prevent pump malfunctions and ensured proper functioning of pumps in boiler rooms.
- Familiarized with the installation methods and backup systems for pumps in case of emergencies.
- Identified and implemented solutions to protect pipes from scaling near boilers, particularly under high water temperature conditions.
- Gained understanding of oxygen tanks' supply mechanisms and contributed to their maintenance
- Acquired knowledge of maintenance and installation of air units for operating rooms, resolving issues with faulty thermostats and unresponsive reversing valves.
- Assessed cooling systems in kitchens and laundry facilities, emphasizing the importance of preventing germ transfer through proper air circulation.

 mansourriad98@gmail.com

 +962 796 565 808

 Amman, Jordan

### TECHNICAL SKILLS

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- Hourly Analysis Program (HAP)
- COMSOL Software
- Solid Works Software
- AutoCAD Software

### LANGUAGES

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- Arabic: Bilingual/ Native
- English: Midrange/ Professional

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## MECHANICAL ENGINEER



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Amman, Jordan

## EDUCATION

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Sep 2019 - Jul 2023

### Bachelors of Science: Mechanical Engineering

Jordan University of Science and Technology (JUST)

#### Graduation Project

I conducted a study using COMSOL software to analyze the behavior of water-Fe<sub>3</sub>O<sub>4</sub> nanofluid under an electromagnetic field. The study explored different scenarios, including variations in wall temperature, heat flux, and insulation. The findings have implications for designing nanofluid-based systems in cooling, refrigeration, and biomedical applications. The results demonstrated the impact of the magnetic field on velocity and temperature distribution, with higher solid volume fractions enhancing heat transfer. The study also highlighted the influence of the Reynolds number on fluid heat transfer.

Feb 2017 - May 2019

### Diploma in Solar Energy Engineering

Al Balqa Applied University (BAU)

#### Graduation Project

Solar cell cooling: Proposed a solution to address the challenge of elevated temperatures affecting solar cells in hot regions, aiming to enhance the overall efficiency of solar panels.

Sep 2015 - Jan 2017

### General Secondary Education Certificate: Scientific Stream

Kharja Secondary High School