

## **Hassan Talal Ghandour**

Mechanical Engineer

+961-76164590 | hassanghandour222@gmail.com | Akkar, Lebanon | linkedin.com/in/hassan-ghandour222/

### **CAREER OBJECTIVE**

Seeking a challenging MEP mechanical engineering position where my experience and skills will significantly contribute to the overall growth of an organization.

### **PROFESSIONAL EXPERIENCE**

#### **Chiller Water System Design – Tower in KSA**

HVAC Project Design | Feb 1 – Apr 12, 2024

- Managed the chiller water system installation for a 21-floor tower in KSA.
- Selected air cooler chiller and sized pump head and flow rate for optimal performance.
- Chose appropriate fan coil units and designed and sized pipes for the system.
- Designed ductwork and selected square diffusers for efficient air distribution.
- Designed ventilation system for fresh air intake and conducted calculations.
- Prepared Bill of Quantities (BOQ) for the project.
- Duct weight and insulation calculations.

#### **Split Duct System Design – Administration Project**

HVAC Project Design | Dec 22 – Feb 28, 2024

- Managed Split Duct Units Installation project.
- Estimated load using HAP for split duct units.
- Selected indoor/outdoor units and square diffusers.
- Designed and sized ducts, including ventilation (fresh air) system.
- Prepared BOQ for the project.
- Conducted calculation for duct weight and insulation requirements.

#### **Final Year Project**

University Project & On-site | Tripoli , Lebanon| 2023-2024

- Led a zero-fuel eco-village transformation, integrating sustainable systems and groundbreaking solar panel energy solutions for complete self-sufficiency.
- Advocated for cost-effective solar water heaters and devised an optimized building management system to maximize energy efficiency.
- Demonstrated exceptional engineering and problem-solving skills, fostering an eco-conscious and sustainable community.

#### **Villa HVAC System Design**

HVAC Project Design | Sept 2 – Dec 20, 2023

- Conducted manual load sizing for each room in a three-floor villa.
- Selected appropriate fan coil units and linear bar air grilles.
- Designed and sized ducts for optimal airflow distribution throughout the villa.

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**Association of Energy Engineers****Internship Online & Site | Zoom , Site| June 31 – Aug 31,2022**

- Strong grasp of HVAC fundamentals, adept at analyzing psychrometric charts and understanding heat transfer principles.
- Proficiency in performing cooling load calculations using HAP software and translating designs into AutoCAD for HVAC systems.
- Valuable hands-on experience gained through active involvement in real-world projects, with a focus on frequent site visits for practical learning and troubleshooting.
- Dedicated to staying updated with industry trends and advancements through participation in masterclasses, demonstrating a commitment to ongoing professional development.

**SKILLS****Computer skills**

- Microsoft XP applications (Word, Excel, Office, PowerPoint, Outlook, Access) – Advanced
- Proficiency in AutoCAD (2D and 3D drawings), Revit MEP, HAP , Duct size , MATLAB , Python.

**Language Skills**

- Arabic – (Native Tongue)
- English – (fluent spoken and written)
- French – (Beginner spoken and written)

**Personal Competencies**

- Ability to work in a fast-paced environment to set deadlines
- Highly organized with a creative flair for project work
- Enthusiastic self-starter who contributes well to the team

**EDUCATION****Oct 2023 – May 2024 Beirut arab university, Tripoli, Lebanon**

Master's degree in mechanical engineering

**Oct 2019 - May 2023 Beirut arab university, Tripoli, Lebanon**

Bachelor's degree in mechanical engineering

**CERTIFICATES**

- Psychrometric demystified – Udemy - Jun 11, 2023.
- Python basics Certificate – Coursera - Jun 8,2022.
- Social Entrepreneurship Training - UNICEF and INJAZ - May 2022.
- Excel fundamentals for data analysis – Coursera - Apr 18, 2022.
- HVAC Design Certificate - Arab International Academy - Feb 27, 2022.

**REFERENCES ARE AVAILABLE UPON REQUEST**