

## AUSAF ALI

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### SUMMARY

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Three year of professional experience as a Mechanical Engineer including one year in KSA, with a focus on heat exchangers and cooling towers. Skilled in operation of cooling towers, paired chillers and heat rejection principles. Despite limited work experience, I possess strong work ethic, adaptability, and simmered to excellence. Specialized in SolidWorks and ANSYS software for optimizing thermal and mechanical systems. Thorough grounding in fluid mechanics, heat transfer, and manufacturing systems. Skilled in project management, engineering problem-solving. I am now seeking a position that offers growth opportunities and the potential for career advancement.

### PROFESSIONAL EXPERIENCE

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#### **FARIS AT-OTAIBI PLASTIC COMPANY**

Jul 2024 – Present

#### **(MAINTENANCE ENGINEER) | SAUDI ARABIA**

Faris al-otaibi plastic company is specialized in manufacturing of high-quality plastic bags by targeting industrial, commercial and domestic needs in Saudi Arabia.

- Ensured regular maintenance of blown film extrusion machines, die heads of different diameters and air rings leading to the continuous production of 10000+ bags/day.
- Performed routine inspection of 200 RT carrier cooling tower paired with water-cooled York chiller to stabilize temperature in production premises.
- Monitored firefighting system including 20+ HP of pumps and sprinkler lines to ensure a quick response under emergency.

#### **SUPERIOR TECHNOLOGY**

Mar 2022 – Jul 2024

#### **(DESIGN AND DEVELOPMENT ENGINEER) | PAKISTAN**

Superior Technology is a leading provider of HVAC solutions, specializing in the design, development, and distribution of cooling towers, heat exchangers, and pumps in Pakistan.

- Designed cooling towers from 75RT to 350 RT capacity, ensuring optimal performance and innovative solutions for various client needs.
- Worked on the development of new projects such as shell and tube heat exchanger, Plate heat Exchangers, addressing technical and engineering challenges.
- Handled client queries related to the CT Fills, Fan Blades, and gear box, providing effective solutions to their systems.
- Acquired experience in sales by targeting high-profile clients including Nishat group and Pakistan CAA, which led to the 20% growth to the overall sales.

#### **MILLAT TRACTORS LIMITED**

Jul 2021 – Aug 2021

#### **(INTERNSHIP) | PAKISTAN**

Millat Tractors Limited (MTL) is a prominent Pakistani company known for its manufacturing of tractors and agricultural equipment.

- Actively participated in assembly of components, acquiring valuable knowledge regarding the manufacturing of generators and prime movers.
- Gained experience in machining of transmission casing, center housing, cylindrical head, cylindrical block, axle housing, lube oil sump.

**THERMCITY INC.**  
**(INTERNSHIP) | UNITED KINGDOM | REMOTE**

Jun 2021 – Aug 2021

Thermcity is a heat exchanger manufacturing company located in United Kingdom.

- Acquired fundamental knowledge of heat exchanger design principles under the mentorship of experienced engineers.
- Contributed to ongoing research projects focused on advancing heat exchanger technology and efficiency.

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## EDUCATION

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**INSTITUTE OF SPACE TECHNOLOGY**  
**(BACHELOR OF MECHANICAL ENGINEERING)**

Islamabad, Pakistan

- Acquired a solid understanding of essential subjects such as Fluid Mechanics, Heat Transfer, Thermodynamics, and CAD.
- Engaged in hands-on projects, including the design and development of a Packinox Heat Exchanger.
- Applied SolidWorks to enhance the performance engineering designs.
- Cultivated both theoretical knowledge and practical skills, which I effectively utilized in various professional projects.

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## ACADEMIC EXPERIENCE

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**DESIGN AND DEVELOPMENT OF PACKINOX HEAT EXCHANGER**  
**(FINAL YEAR PROJECT)**

Packinox heat Exchanger is a versatile type of heat exchanger known for its better efficiency.

- Designed to ensure optimal heat transfer and minimal energy waste.
- Designed on the basis of combination of STHE and Plate HE.
- Sponsored by a heat exchanger manufacturing company, " thermciTy Inc."

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## EXTRACURRICULAR & VOLUNTEER EXPERIENCE

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**ASHRAE CHAPTER IST**

- As a President, led the chapter to its organizational goals by organizing events related to heating, ventilation and Air condition.

**UMEED; A WELFARE SOCIETY**

- Conducted teaching visits to local underprivileged schools, delivering educational support and mentorship to children from economically challenged backgrounds.

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## CERTIFICATIONS

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**ONLINE COURSES**

- Introduction to ANSYS Workbench 3D
- VDI Heat Atlas
- CAD Fundamentals with SIEMENS Solid Edge
- Introduction to CAD/ SolidWorks.

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## ADDITIONAL

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**TECHNICAL SKILLS**

- SolidWorks
- ANSYS Workbench
- Solid Edge
- MS Office

**INTERESTS**

- Graphic Designing
- Photography

**LANGUAGE**

- English
- Urdu