



Usman Ahmed

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● ABOUT ME

I am deeply passionate about creating and improving systems that make a real impact. With a strong sense of responsibility and a focused mindset, I approach every design task with care, creativity, and commitment. I believe in continuously learning, challenging myself, and staying dedicated to the path I've chosen. My goal has always been to grow not just in skills, but in vision—becoming better with every experience and staying true to the values that drive my career in design.

● WORK EXPERIENCE

 **EMITSUN SOLUTIONS** – ISLAMABAD, PAKISTAN
DESIGN INTERNEE – 02/01/2025 – CURRENT

During my internship at Emitsun Solutions, I gained hands-on experience in designing and implementing HVAC Centralized Air Conditioning and Firefighting systems. I worked on load calculations, equipment selection, layout planning, and ensuring compliance with industry standards. I contributed to creating efficient, safe design blueprints using advanced software and collaborated with multidisciplinary teams. I also developed familiarity with NFPA standards and participated in the design of water storage tanks for firefighting systems, focusing on capacity planning and code compliance.

 **HEAVY INDUSTRIES TAXILA** – TAXILA CANTT, PAKISTAN
DESIGN INTERNEE – 02/09/2024 – 28/12/2024

I completed an internship at Heavy Industries Taxila in the Research and Development (ARDIC) department, where I worked on the design and modeling of mechanical components using CREO. My focus was on parts for large-scale defense equipment, including tank barrels and artillery systems. A key contribution was creating detailed 3D models of the inner and outer top roller assemblies for the VT4 main battle tank. This experience gave me hands-on exposure to the full design process, precision engineering, material selection, and system integration, while collaborating with experienced engineers in a high-tech defense environment.

 **WASTE BUSTERS** – ISLAMABAD
HVAC TECHNICIAN. – 2021 – 2023

Part-time experience in domestic-level HVAC equipment installation and maintenance.

 **MIA GROUP OF COMPANIES** – RAWALPINDI, PAKISTAN
HVAC CHILLER OPERATOR – 01/08/2020 – 25/10/2020

Experienced in troubleshooting and maintenance of HVAC systems including McQuay and Daikin centrifugal chillers, screw compressor chillers, VRV/VRF systems, AHUs, and FCUs. Skilled in operating centrifugal pumps, handling absorption chillers, and using SOS diagnostic devices. Proficient in extracting and analyzing data from PLCs for system optimization. Familiar with the application of inhibitors for HVAC water treatment. Strong focus on performance enhancement and fault diagnostics.

● LANGUAGE SKILLS

Mother tongue(s): **URDU**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B1	B1	B1	C1	B1
ARABIC	B1	B1	B1	C1	A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **EDUCATION AND TRAINING**

08/09/2021 – 19/05/2025 Islamabad, Pakistan
BACHELORS OF MECHANICAL ENGINEERING National Skills University Islamabad

Level in EQF EQF level 6

2018 – 2021 Rawalpindi, Pakistan
DIPLOMA OF ASSOCIATE ENGINEER Government College of Technology Rawalpindi

Level in EQF EQF level 8

2016 – 2018
MATRICULATION FBISE

LEVEL-II CERTIFICATE HVAC&R (NAVTTTC)

SAFETY OFFICER (3 MONTHS)

GRAPHIC DESIGNING (NAVTTTC)

TRAINING ON REFRIGRANTS BY UN-ENVIRONMENT PROGRAMME

ENGLISH LANGUAGE (TEVTA)

RPL WELDING NAVTTTC

● **SKILLS**

Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access | Auto CAD | Solid Works | SPSS | Creo