

# Muhammad Amir Taj

Mobile: [+92 348 5534420](tel:+923485534420)

Email: [amirtaj3434@gmail.com](mailto:amirtaj3434@gmail.com)

Address: LANE#8 HOUSE 314-G Snober City Adiala Road  
Rawalpindi



## Objective:

As a motivated and detail-oriented Mechanical Engineering graduate, I aim to begin my professional career in a dynamic and growth-oriented organization. I seek to apply my knowledge in design, manufacturing processes, and maintenance management to contribute effectively to engineering solutions. I am eager to learn from industry professionals, improve my technical and soft skills, and actively participate in projects that challenge my abilities while fostering innovation and continuous improvement.

## Job Experience

### Attock Petroleum Limited Mechanical Engineering Department(Internship) June 2021 - August 2021

Assisted in routine mechanical inspections, maintenance planning, and equipment performance monitoring. Gained hands-on experience with pumps, compressors, and piping systems, and learned about safety protocols and operational procedures in petroleum plant environments.

## Project Details

**Project Title:** Design And Fabrication Of Cryogenic Box.

**Description:** Designed and fabricated an insulated cryogenic storage box capable of maintaining ultra-low temperatures using liquid nitrogen. The project focused on material selection, thermal insulation, and structural integrity to ensure safety and performance. Integrated copper piping and solenoid valve for controlled flow and temperature regulation. Performed calculations for heat transfer, temperature loss, and pressure control. The project enhanced skills in design, fabrication, and thermal analysis, and provided practical experience in handling cryogenic systems and safety considerations.

**Duration:** 1 year

**Role:** Design calculations, material selection, supervision of fabrication, piping assembly, performance testing, and documentation.

**Team Members:** 3

## Education

**Institution:** International Islamic University

Islamabad (IIUI)

**Major:** BS Mechanical Engineering

**GPA:** 3.39

**Year of Passing:** 2025

**Institution:**Army Public School & College - Boys  
Ordnance Road Rawalpindi  
**Major:**Intermediate  
**Percentage:**82  
**Year of Passing:**2021

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**Institution:**Army Public School & College - Boys  
Ordnance Road Rawalpindi  
**Major:**Matriculation  
**Percentage:**83  
**Year of Passing:**2019

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*Field of Interest*

Thermal systems and heat transfer  
Mechanical design and product  
development

Renewable energy and sustainable  
technologies  
Manufacturing processes and  
automation

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*Skills*

MS Excel  
MS word

CNC Programming Basics  
SolidWorks

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*Hobbies*

Playing Cricket

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*Personal Details*

**Father's Name :** Muhammad Taj  
**Date of Birth :**16/10/2001  
**Gender :** Male  
**Nationality :** Pakistani  
**Languages Known :** Urdu English Punjabi