

Muhammad Waqas

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Education

School of Mechanical and Manufacturing Engineering (SMME), NUST (3.36/4.00)	Islamabad, Pakistan
<i>Bachelor of Mechanical Engineering</i>	2018-2022
Government PST College Kamalia (956/1100)	Kamalia, Pakistan
<i>F.Sc. Pre-Engineering</i>	2016-2018

Professional Experience

CureMD Bootcamp (SQA)	Lahore, Pakistan
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A software company providing its services to clinics and hospitals to maintain records of patients

Bootcamp Intern: October 2022 – Present

- *Programming Fundamentals:* Learnt the basics of programming in C# including loops, functions, OOP, classes, data structures and algorithms and practiced assignments implementing these concepts.
- *Project:* Completed a project to prepare a billing system for different users and units range using classes.
- *Manual SQA:* Learnt about test data, SDLC, STLC, black-box and white-box testing and agile and scrum models used within the company.

AMAL ACADEMY	Lahore, Pakistan
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Education startup funded by Stanford University that teaches professional skills to students and corporations

Career-Prep Fellow: Nov 2021 – Feb 2022

- *Communication:* Attended weekend sessions for 3 months to enhance interaction and communication.
- *Skills development:* Developed professional skills like leadership, problem solving, teamwork etc.

LALPIR THERMAL POWER PLANT	Muzaffargarh, Pakistan
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An electricity production steam power plant based on double reheat Rankine cycle

Maintenance Engineering Intern: July 2021 – August 2021

- *Teamwork:* Worked in a team of 3 interns to study the components and working of pumps, turbines and boilers, to analyze and improve their efficiencies and also to prevent any possible failures.
- *Process upgradation:* Suggested to combine steam Rankine cycle with Gas turbine to maximize efficiency.

Academic Experience

STRUCTURAL ANALYSIS OF SATELLITE LAUNCH VEHICLE (FYP)	Islamabad, Pakistan
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Team member: September 2021 – May 2022

- *Analysis:* Performed FEA, CFD and vibrational analysis on a launch vehicle to check its strength and stability.

BICYCLE FRAME DESIGN AND ANALYSIS	Islamabad, Pakistan
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Team Leader: March 2020 – May 2020

- *Analysis:* Designed a bicycle frame and evaluated stresses analytically. Modeled and performed its FEA on Solid Works to check for maximum stresses and stress concentrations. Then, compared them for validation.

Extracurricular and Volunteer Experience

ASHRAE Chapter NUST	Islamabad, Pakistan
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- *Director HR & Liaison:* Managed a team of 6 members for internal and external communication of society.

Honors and Awards

Science Talent Farming Scheme Scholarship	Islamabad, Pakistan
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- Got 1st position in STFS and received scholarship and laptop from Pakistan Science Foundation (2017-2018)

Participation at London International Youth Science Forum (LIYSF)	London, United Kingdom
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- Participated at LIYSF at Imperial College London sponsored by Government of Pakistan, received insightful lectures from scientists, visited Universities of Oxford, Cambridge and Kent (2017)

Merit-based Laptop Award	Toba Tek Singh, Pakistan
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- Received merit-based laptop award from Chief Minister Punjab (2017)

Additional

- **Technical Skills:** MS Office, Solid Works, ANSYS, MATLAB, C++, C#, LabVIEW, COMSOL Multiphysics
- **Interests:** Automotive Technology, Aerospace Technology, Structural Design, Badminton, Chess