**MUHAMMAD ABDULLAH**

[muhammad-abdullah](https://www.linkedin.com/in/muhammad-abdullah-12b936212/)

**|**   Lahore

 +923214426121 **|**  [mash.nust@gmail.com](mailto:mash.nust@gmail.com) **|**

**Education**

**NATIONAL UNIVERSITY OF SCIENCES AND TECHNOLOGY (NUST)** Islamabad, Pakistan

* BE Mechanical **CGPA: 3.62** *2019-2023*

**Professional Experience**

**CureMD - WebDevelopment Bootcamp** *July 2023 - Sep 2023 (8 weeks)*

* In an eight weeks training session, I learned about backend technologies like .NET Web APIs in C# and frontend framework Angular.

**Mechanical Engineering Intern – Nishat Mills Limited** *July 2022 - Sep 2022 (6 weeks)*

* Analyzed the working of Diesel engines, Gas turbines, Steam turbines, boilers and all the auxiliary of the power plant including cooling towers, RO plant and Chiller System.
* Completed the task to find the efficiency of Wartsila W20V34DF which came out to be 38.5%.
* Worked on CFBC boiler of 60 ton/h steam capacity along its components like super heaters, primary and secondary air fans, and economizer.

**Mechanical Engineering Intern – Nayyer Carpets**  *June 2022 - July 2022(4 weeks)*

* Learned the process of carpet making from raw material to a finished carpet.
* Monitoring and Control of the whole carpet manufacturing process.
* Analyzed the manufacturing process of back coated carpets from raw materials to the final product.

**Mechanical Engineering Tutor – Course Hero** *June 2020 - Sep 2022(2 years 4 moths)*

* Successfully answered mechanical engineering queries with **85 %** helpful rate.

**Projects**

**Blog Post App**

* A platform where People can login using there account credentials and make posts of different categories, do comments, delete their posts.

**Back end:** asp.Net

**Data base**: Microsoft SQL

**Front end:** HTML, CSS, JavaScript and jQuery

**Reactive to-do list**

* A To-do list with two columns one with active tasks and the other with completed tasks. It frontend was done on angular and backend and database in asp.Net and Microsoft SQLrespectively.

**Concepts learned and implemented:**

Components, Services, Modules, angular cdk, Routing, angular material, HTTP client.

**Application Hosting:**

https://reactive-to-do-list.vercel.app/

**Design and Testing of Offshore Oscillating Water Column *(Final year project)***

* A device used offshore to convert sea wave energy to electrical energy. The different parameters of a water chamber are under study along with CFD Simulations. The pressure differential produced in the chamber will be used to turn turbine connected to a generator producing power.

**Steam Power Plant 4kw Turbine Design Calculations**

* Performed theoretical design calculations of turbine for a steam plant based on biomass.

**Domestic Temperature Monitoring and Air Conditioning System**

* Design of a temperature measuring control system for a room model from 0 to 50 degrees Celsius.

**CD-Nozzle Design**

* Analyzed a Converging Diverging (CD) nozzle at different conditions and shock waves analysis.

**Chat bot**

* Developed a query answering bot using C++ which gives 1-2 liner answer to the question.

**Skills**

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**Achievements**

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| ASP.NET | Microsoft SQL |  |
| HTML, CSS, Javascript (jQuery) | Angular | 2x NUST High Achievers Scholarship |
| COMSOL | CREO | Granted Lahore board Scholarship |
| ANSYS | Overleaf | Chief Minister Laptop Winner |
| Solidworks | MS Office |  |
| MATLAB | Proteus |  |

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**Extracurricular Activities**

* Saya School F12 - **Volunteer Teacher of Math & Physics** *(02/2022 - 04/2022)*
* Nau-e-Insani - Co-Director HR *(12/2021 – Present)*
* NUST Fitness Club - Executive HR *(03/2020 - 02/2021)*
* Tug of War Inter School Champion *(02/2023)*
* Semi Finalist of Arm wrestling competition *(12/2021)*