MUHAMMAD ABDULLAH

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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 SQL respectively.
  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

- ASP.NET
- HTML, CSS, Javascript (jQuery)
- COMSOL
- ANSYS
- Solidworks
- MATLAB
- Microsoft SQL
- Angular
- CREO
- Overleaf
- MS Office
- Proteus

Achievements

- 2x NUST High Achievers Scholarship
- Granted Lahore board Scholarship
- Chief Minister Laptop Winner

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)*