TAYYAB MUNIR

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OBJECTIVE

As an ambitious and motivated graduate with majors in Mechatronics engineering from Nust, I am eager to apply my theoretical knowledge and passion for innovation to a challenging role in the industry. With a solid foundation in programming and electronics, I possess strong technical and analytical skills, as well as the ability to work effectively both independently and as part of a team. Through the project work, I have developed proficiency in C++, Python, Javascript, web app development and electronics design, and I am committed to continual learning and growth as I embark on my career.

EDUCATION

Bachelor of Mechatronics Engineering 2018-2022
National University of Sciences and Technology (NUST) CEME CGPA: 3.22

Intermediate 2016-2018
Islamabad Model College for Boys, F-10/3, Islamabad 80%

Matriculation 2014-2016
Islamabad Model College for Boys, F-10/3, Islamabad 90.95%

SKILLS

Technical Skills C++, Java, Python, Javascript, HTML, CSS, Mongodb, Expressjs, Node, Arduino, Reactjs, Bootstrap, Tailwind, Tkinter, qt5, Solidworks, Ltspice, Proteus, Matlab

Soft Skills Communication, Teamwork, Time management, Leadership, Conflict resolution, Creativity

PROJECTS

Open Source Impedance Analyzer Using Raspberry pi Final Year Project

- Created a GUI Software for AD5933 impedance Analyzer in python.
- Provided a low-cost solution to the highly expensive Impedance analyzers.
- Built equivalent circuit models for the unknown impedance.
- View it here

Home Automation

- Built a server in nodejs that listens for local requests and communicates serially with Arduino to turn on lights.
- An alternative to expensive home automation devices
- View it here

Fast Fourier Transform in making Low, High and Bandwidth Filters

- Fast Fourier Transform in making Low, High and Bandwidth Filters.

Web Scraper

- Built a web scraper that scrapes for headlines on a news website like bbc.com or any other website.
- View it here

RELATED COURSES

Fundamentals of Programming	Learned the Basics of progarmming variables, loops, controlled structured, functions and some simple algorithms
Data Structures and OOP	Learned Advanced object oriented Programming concepts, data structures and made programs with OOAD techniques
Electric Circuit Analysis	Learned basic circuit theory, nodal/mesh analysis, thevenin/norton theorem, and higher order ciruit analysis
Electronics Circuit and Devices	Learned the working principles of electronics components like diodes, bjt's, mosfets and made simple circuits
Electronics Circuit Design	Learned how to design circuits and do circuit simulations
Signals and Systems	Learned how signal processing is done in computers
Instrumentation and Measurement	Learned analog to digital conversion and vice-versa