USMAN SHAFIQUE

Electrical Engineer

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I am a student of Electrical engineering who is ambitious and committed, and having will to take problems as challenge and solve it. I am passionate about innovation. Posses outstanding technical proficiency and a thorough knowledge of electrical engineering fundamentals. I have outstanding skills on software related to Electrical Engineering. I want to practice my skills and engineering knowledge in practical life and convert my passion into profession.

SKILLS

- Electric circuit Analysis
- Digital and analog electronics
- Power systems and distribution
- Web designing
- Signal processing
- Digital Image Processing
- Machine Learning
- Computer Architecture
- Programming languages (C/C++,Assembly, MATLAB, Verilog, Python)
- Problem Solving
- Teamwork
- Good Communication

SOFTWARES

- Proteus/PSpice
- LTspice
- MATLAB
- AutoCAD
- ETAP
- DevC++
- Arduino IDE
- ModelSim
- Cisco Packet Tracer
- Microchip Studio
- Microsoft Office
- Ansys HFSS

LANGUAGES

- English (Conversational)
- Urdu (Fluent)
- Punjabi (Fluent)

HOBBIES AND INTERESTS

- Video Editing
- Video Games
- Gym
- Cooking

EDUCATION

BS Electrical Engineering 2020-2024 (In progress)
Namal University Mianwali
Current CGPA: 3.32/4.0

FSc Pre-Engineering 2018-2020
Punjab College, Okara
Marks: 994/1100

Matric (Science) 2016-2018
Govt High School, Hujra (Okara)
Marks: 1025/1100

PROJECTS

4-bit Arithmetic Logic Unit
Implemented on both gate level and software building calculator

Home Automation System
Designed a small Home Automation using different sensors in Electronic Devices and Circuit

Communication Network System
Wired and wireless networking system using routers, servers and access points of University

Robot in Control system
Instructed lego Robot by making PID controller

University Management System in C++
Used concepts of OOP and Data structure and Algorithm

Effect of different types of noise on audio signals with respect to SNR
Using Matlab, effect of white, pink, shot and gussain noise analyzed.

Communication System transmitting and receiving signal
Four signals of same bandwidth were transmitted and received remaining in 10kHz bandwidth

Single Cycle RISC-V processor
5 instructions executed in single cycle processor of RISC-V in Verilog (Load, Store, Addi, Subi, And)

An Online Intelligent Rice Classification System (FYP)
A web-based platform for single and muli-rice classification using Deep learning techniques.

CERTIFICATES & ACHIEVEMENTS

100% Merit Scholarship 2020-2024
BS Electrical Engineering, Namal University Mianwali

Certificate of Apperciation April-2023
Namal Sports and Adventure Society