Sidra Naveed

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A dedicated Electrical Engineering graduate with a strong foundation in computer architecture, chip design, and machine learning. Passionate about developing innovative technologies and driven by a deep interest in advancing knowledge through research and practical applications. Actively seeking an opportunity in these specialized fields, with a commitment to contributing to cutting-edge advancements that benefit humanity.

3.87/4

EDUCATION

O BS - Electrical Engineering Namal University Mianwali

09/2021 - 07/2025

- Major Courses
- Digital System Design
- Computer Architecture
- Digital Signal Processing
- Wireless
- Digital Logic Design
- Communications
- WORK EXPERIENCE

Electronic Design Engineer, Internship Optoelectronics pvt ltd, Lahore

07/2024 - 09/2024

Work on LED bulbs, Capacitor Manufactroing

- Achievements/Tasks
- Gained R&D experience at a product-based company.
- Researched PCB design for smart fans with BLDC motors.
- Designed and developed 12W, 18W, and 10W LED bulbs using KiCAD and FlatCAM.

Research Assistant

Al and Big Data Centre

08/2023 - 09/2023

- Administrative Tasks
- Organized a Summer School on "Supercomputing, AI, and Big Data Applications".
- Managed marketing and application coordination

Class Representative

Namal University Mianwali

10/2023 - 11/2024

- Achievements/Tasks
- Represented student interests in meetings with faculty and administration.
- Coordinated class activities and events, fostering a positive and inclusive environment.

Teacher Assistant

Namal University Mianwali

09/2022 - 01/2023

Lab Assistant

_____Tasks

- Assisted in conducting undergraduate lab sessions

TECHNICAL SKILLS



RESEARCH PROJECTS

High Speed Object Classification using GMSL camera and embedded GPU

 Achieved classification at 70FPS using mobilenetv2 on Jetson Xavier NX.

Detection of Diabetic Retinopathy using Convolutional Neural Networks

 Developed a CNN model in PyTorch for detecting diabetic retinopathy from retinal images.

Single Cycle RISCV Processor design

Designed 32 bit RISCV single cycle processor using Verilog HDL.

Arithmetic and Logic Unit Calculator

 ALU is designed in Verilog at gate level and implemented in hardware.

Sound Amplifier

- Using BJT's configuration, a sound amplifier is designed.

Line Following Robot using Atmega328p

 Designed a line stringent robot using C language in Microchip Studio, programming at Atmega328p.

Speed Control of DC motor using Atmega328p

 Implemented DC motor speed control using ATmega328P, with simulation programmed in C using Microchip Studio

Designing a library management portal

 Developed a Python-based library management portal with a GUI interface for interactive user operations

TRAININGS

Corporate Readiness Training Program Netsol Technologies, Pakistan

A 10-Day Workshop: How to Write and Submit a Research Article (02/2023 - 03/2023) Center of AI and big Data, Namal University Mianwali

2 day Training on Soft Skills Development Punjab Educational Endowment Fund, Pakistan

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