## Muhammad Salman

Electrical Engineer

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in

Electrical engineer specializing in FPGA programming (Verilog) and RISC-V processor development, with expertise in circuit analysis & simulation (MATLAB, Proteus, PSpice). Skilled in end-to-end hardware design and optimizing performance for embedded systems. Combines hardware innovation with software integration to develop scalable, cutting-edge solutions.

3.07

## **EDUCATION**

## Bs Program

## Namal University Mianwali

11/2021 - Present

Courses

- Computer Architecture

 Technical Writing and Communication

- Digital Signal Processing

Digital Logic Design

Embedded Systems

Communication Systems

Power Electronics

## Fsc(Pre-Engineering)

Daanish School Boys Hasilpur

973/1100

#### WORK EXPERIENCE

## O Event Organizing Team Member

Namal University Mianwali

Achievements/Tasks

 Got experience in arranging and participating in Namal Robo Tec 2024 and held at Namal University, Mianwali, in which more than 15 universities and 100+ teams participated nationwide.

## **ORGANIZATIONS**

#### IEEE Namal Student Branch

Social Media Head and Coordinator

#### Namal Tech Expo

Event Organizer Team

#### Scholar Bridge Society Namal Chapter

Head Graphics Designer

## **SKILLS**



## PERSONAL PROJECTS

#### Single-Cycle RISC-V Processor Design

 Designed and built a basic RISC-V processor from scratch. Wrote the hardware code, added pipelining for better performance, and tested it using free tools (Iverilog and GTKWave). Made sure it works with standard RISC-V software tools like GCC

# Design and Implementation of RISC-V Processor for AES Algorithm

- Final Year Project
- Developed and integrated the AES algorithm into the PicoRV32 RISC-V processor, optimizing it for cryptographic operations. Performed verification tasks using Verilog

#### Line Follower Robot

 Designed and implemented a line follower and hurdle detection robot using AVR microcontroller.

#### Cricket Scoreboard Management System

 By using C++, I designed a cricket scoreboard management system and implemented sorting and searching functionalities on the CodeBlocks tool.

#### Converter Design

 I have designed an optimized converter by comparing buck, boost, buck-boost, and flyback converters on MATLAB.

## **LANGUAGES**

Urdu

Full Professional Proficiency

English

Professional Working Proficiency

#### Punjabi

Full Professional Proficiency

## **INTERESTS**

Problem Solving Programming Freelancing

Graphic Design Video Gaming