Muhammad Farhan

Electrical Engineer

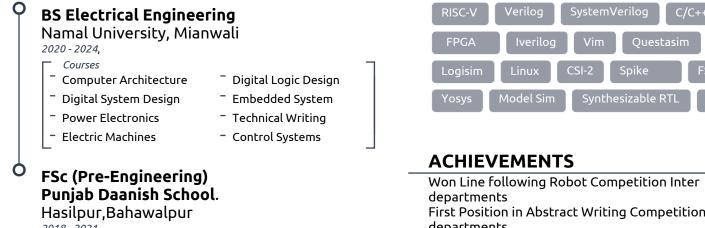
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I am a passionate Electrical engineer at Namal University Mianwali, eager to embark on a career in Hardware Design and Verification. I have a strong understanding of SoC design, ASIC implementation, and RISC-V architecture, and I am driven to translate theoretical knowledge into practical applications, contributing effectively and innovatively to cutting-edge projects.

EDUCATION



2018 - 2021

PERSONAL PROJECTS

RISC-V Single Cycle and Pipelined Processor Design

- From single cycle to pipelined processor without hazard detection logic
- 4-bit ALU Design and Hardware Implementation
- I designed and implemented a 4-bit Arithmetic Logic Unit (ALU) capable of performing basic arithmetic and logical operations such as addition, subtraction, AND, OR, and XOR.
- System Verilog Layered Testbench Project 1.4-bit Adder (sequential, Combinational)
 - 2.**FIFO**
 - 3. D-Flip Flop

WORK EXPERIENCE

RTL Training and Linux Fundamentals CESD-Namal, 10XEngineers CESD-Namal University Achievements/Tasks Learned Hardware Description Languages (HDL) including Verilog, SystemVerilog and UVM. Practiced HDL languages and learned basic Linux commands.

Ex: IEEE Marketing Director IEEE-NSB

04/2022 - 08/2022,

IEEE Namal Student Branch

- Achievements/Tasks
- As the marketing head for IEEE at Namal University, I

promote the organization's activities

SKILLS

FSM UVM

First Position in Abstract Writing Competition Inter departments

CURRENT PROJECT FYP

Functional Verification of MIPI (Mobile Industrial Processor Interface) Using UVM (Universal Verification Methodology) In QuestaSim

ORGANIZATIONS

IEEE (Namal Student Branch) (04/2022 - 08/2022)

NSSI(Namal Society for Social Impact) (03/2022 - 06/2022)

CERTIFICATES

RTL Design and Verification (07/2023 - 09/2023) Center of Excellence and Skills Development

Verilog HDL Fundamentals for Digital Design and Verification (04/2024) Udemy

LANGUAGES

English Full Professional Proficiency

Urdu Full Professional Proficiency

INTERESTS

Hardware Design and Verification

SoC Design