Anousha Malik

Electrical Engineer

Innovative engineer with experience in IC design, including SoCs and FPGAs. Skilled in leadership and management, with a proven ability to effectively lead and organize teams.

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EDUCATION

Pre-Engineering
Superior Group of Colleges

09/2018 - 02/2020

BS Electrical Engineering
Namal University Mianwali

11/2021 - Present

WORK EXPERIENCE

Jr. Research Assistant
Center for AI & Big Data (CAID)

09/2024 - Present

Achievements/Tasks
- Gained in-depth knowledge of System-on-Chip (SoC) architecture and its real-world applications.
- Developed expertise in the LiteX framework for SoC design and FPGA deployment.
- Acquired proficiency in the GCC toolchain and successfully designed a RISC-V single-cycle processor.

Internship Internee
National Incubation Center for Aerospace Technologies (NICAT)

07/2023 - 09/2023

Achievements/Tasks
- Conducted research on chip design and RISC-V architecture, exploring optimization techniques.
- Gained insights into transforming Final Year Projects (FYPs) into viable startups.
- Organized and promoted workshops, ensuring effective audience engagement.

SKILLS

RISC-V Embedded C SoC Python

Processor Design LiteX Verilog FPGA

PERSONAL PROJECTS

RISC-V Single Cycle Processor Design (10/2024 - Present)

Designed RISC-V Based SoC Using LiteX and Deployed it on FPGA. (09/2024 - Present)

Human Vision Vs Machine Creation, Realism Classification Approach. (11/2024 - 02/2025)

Designed 5 Stage RISC-V Pipelined Processor (12/2024 - Present)

Designed a Robotic car using motor driver L293D (06/2023 - 07/2023)

CERTIFICATES

Stanford Certified for Machine Learning: Regression and Classification. (06/2024 - Present)

Certificate of Learning Digital Marketing Strategies (05/2022 - 07/2022)

IEEE Certified Volunteer Administrator (10/2022 - Present)

LANGUAGES

English
Native or Bilingual Proficiency

Urdu
Native or Bilingual Proficiency

INTERESTS

Digital System Design Computer Architecture RTL

UVM Research Verification and Testing

Partnerships and Collaborations Project Management