

NASIR ABBAS

Namal University Mianwali contact number: +923062366079 , nasir2021@namal.edu.pk
Linkedin profile [linkedin.com/in/nasir-abbas](https://www.linkedin.com/in/nasir-abbas)

Summary

Highly motivated and results-oriented individual with a solid foundation in electrical engineering principles. Passionate about turning theoretical concepts into practical, real-world innovations. Keen to learn from skilled professionals in the electrical and electronics field, particularly in PCB design and FPGA-based digital system design for solving real-life problems. Deep interest in chip design, embedded systems, and small-scale embedded product development. Skilled in leadership, time management, teamwork, and effective communication, with a strong focus on achieving objectives efficiently and collaboratively.

SKILLS

Languages: C(basic), verilog, VHDL, Assembly and Matlab.

Technologies and tools: ModelSim, Gvim , Venus , Xilinx (Vivado & ISE 14.7), pspice, VS code, proteus, ETAP

Hardware: Field Programmable gate array(FPGA), circuit boards, Electrical power , Esp32 board

FINAL YEAR PROJECT

"DESIGN AND IMPLEMENTATION OF SINGLE PRECISION FLOATING POINT UNIT(FPU) IN RISC-V PROCESSOR"

- follow IEEE-754-2008
- Integration with core PicoRV32
- operation add, sub, mul and logic
- FPGA implementation

ACADEMIC PROJECTS

- | | |
|---|---|
| • RISC-V Single Cycle Processor Design | • 4 bit ALU design using Modelsim and hardware |
| • RISC-V 5-Stage Pipeline Processor Design(Initial) | • Line following robot using Atmega328P |
| • Traffic Light Control (FSM) using verilog | • Load Calculation of whole university and estimating over all cost of solar panels |
| • 32-bit ALU design (verilog) | • Switch, RTL , gate and Data flow mini projects |
| • LED blink using FPGA | |
| • 7 segment display using Spartan-6 FPGA | |
-

Courses

- | | |
|-------------------------|-------------------------------------|
| • Computer Architecture | • Digital System Design |
| • Embedded system | • Electrical Power |
| • Power Electronics | • Object Oriented Programming |
| • Digital logic design | • Introduction to Power Engineering |
| • Internet of things | • Renewable Energy Sources |

Internship

- 2 Wapda thermal power station Guddu 747 MW
- 6 month practical course from Skill Development Council Karachi in Customer service and Sales Assistant.
- 2 month internship in Call center Karachi Flex Source International

Education

- Completed Intermediate from Punjab Group of Colleges in 2020
- Matric from Government Ajmal Bagh high school 2018

Core competencies

Verilog, FPGA, system analysis and design, verification test, embedded system, power, renewable energy,

Interests

Chip design, Verification, Power & Solar Design, IOT , Electrical equipments sales, Project management , Embedded system design, renewable energy and telecommunication

References are available on request.