



MUHAMMAD SHAHZAD GHAFAR

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EDUCATION

2021 - 2025

NUTECH UNIVERSITY

- Bachelor of Science in
Electrical Engineering
- CGPA: 3.24/4

2019 - 2021

APSACS DHAMIAL

- FSC Pre-Engineering
- 864/1100

TECHNICAL SKILLS

Programming Language:

- Verilog, C++, Python,
Embedded C.

Software:

- Xilinx ISE, Vivado,
Quartus, Proteus,
Multisim, MPLAB,
Arduino IDE

PROFILE

During my studies, I learned about embedded systems, IoT, and RFID smart metering, and I enjoy learning new tools, working with others, and making ideas come to life. I'm also excited to improve my skills, take on new challenges, and bring my passion to a modern engineering team. With hard work and a desire to learn, I want to become a professional who can help both new initiatives and the company I work for.

INTERNSHIP EXPERIENCE

- AKSA-SDS** AUG 24 - SEP 24
Embedded System Intern
 - Developed a system for real-time measurement and display of current, voltage, and power utilizing the ACS712 5A current sensor, ZMPT101B voltage sensor, Arduino Uno microcontroller, and an OLED display.
 - Enhanced my proficiency in embedded systems development, microcontroller programming, and sensor interfacing techniques through hands-on hardware implementation and software integration.

PROJECTS

- Design and Development of Prepaid Energy Meter **(FYP)**
- Window Blind Control System • Line and Wall Following Robots • Incubator • Traffic Lights Control System • Dam Barrier Motors & Room Temperature Control using PLC.

CERTIFICATIONS

- Embedded Edge Academy** 2025
Microcontroller vs Microprocessor Workshop
- IEEE EVENT AT NUTECH** 2024
IEEE Inauguration & Professional Development Event
- AKSA-SDS** 2024
Internship