

Syed Ammar Zulfiqar

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ABOUT ME

A third-year Computer Engineering student passionate about hardware-software integration, embedded systems, and networking. Skilled in microcontrollers, digital logic design, and network configuration, always eager to solve real-world tech challenges.

EDUCATION

FAST-NUCES, KARACHI, BS in EE (Specialization in Computer Engineering) **July 2022 – Present**
• **GPA:** 3.15/4.00
Coursework: Object Oriented Programming, Data Structures and Algorithms, Data Communication and Networks, μ P Interfacing and Programming, Embedded Systems.

LANGUAGES

- **Urdu:** Native
- **English:** Professional

PROJECTS

Bank Management System (Java, OOP, Swing, NetBeans)

- Developed a secure and user-friendly virtual banking system with features like deposits, withdrawals, chequebook requests, and loan applications.
- Implemented authentication and role-based access control to ensure security, preventing unauthorized transactions.
- Integrated an interactive GUI using Java Swing for seamless banking operations and user management.

University Campus Network (Cisco Packet Tracer, VLANs, Routing)

- Designed and simulated a scalable network with VLAN segmentation and inter-VLAN routing.
- Configured Cisco 2911 routers, 3650 Layer 3 switches, DHCP, and RIP v2 for efficient communication.
- Implemented RIP v2 for efficient routing, ensuring seamless communication between faculty, students, and administrative offices.

Digital Tachometer (ATmega32, Sensor Interfacing, Embedded Systems)

- Designed a digital tachometer to measure rotational speed using a proximity sensor and ATmega32 microcontroller.
- Implemented real-time RPM calculation with signal processing and displayed results on a 16x2 LCD.
- Developed an efficient feedback mechanism using LEDs for status indication and error handling.

TECHNOLOGIES

Skills: C, C++, Java, Python, HTML, CSS, JavaScript.

Soft Skills: Problem-solving, Teamwork, Time Management, Critical Thinking.

CERTIFICATIONS

Courses: Full Stack Web Development Bootcamp (Ongoing) – Covers Node.js, React, PostgreSQL, Web3, and DApps.

Certificates: Code In The Dark | Developer Day, Speed Programming | Procom.