

FIAZ KHAN. A

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🎯 Electronics Enthusiast & Aspiring Embedded & IOT Developer and Research & Development passionate about innovating cutting-edge solutions to address societal challenges. Strongly driven to learn and implement emerging IoT , Embedded Systems , and AIOT technologies. Seeking opportunities to apply technical expertise , develop innovative projects , and expand knowledge in real-world applications.

📖 Education: 2021 - 2025 📅

B.E - Electronics & Communication Engineering.
(Prince Shri Venkateswara Padmavathy engineering college)

Certifications:

Electronics Mastery, Altium designer, AI teachable machine, python game development, C programming, Home automation, Prompt engineer, IOT & electronics.

🧠 Technical skills:

• Embedded Systems & Firmware Development:

Bare-metal Embedded Systems - Low-level firmware development using C and Assembly , ESP32 , AVR , 8081 microcontroller , Memory optimization.

OS-Based Embedded Systems - Real-Time Operation Systems FreeRTOS , Raspberry Pi , Embedded Linux , Shell scripting , System Calls , Multi-threading , task scheduling.

• Communication Protocols: UART , I2C , SPI , WIFI , Bluetooth , RFID , MQTT , TCP/IP , UDP

• Programming Languages: C , C++ , Python, Embedded C , microPython.

• Circuit & PCB Design: Altium Designer , Proteus , Kicad.

• AI & Edge Computing: TensorFlow , OpenCv , Teachable machine.

Soft Skills: Problem-Solving & Debugging , Team Collaboration & Leadership , Critical Thinking , Creativity & Innovation , Time management , Adaptability & Continuous Learning.

Other Skills: Soldering , Graphic design , First responder , Sales and service.

💡 Projects: <https://github.com/5azkon>

• ABBS System [Advanced Bus Boarding Security System] 2023 📅

It prevents accidents by controlling bus acceleration/deceleration during boarding.

• Smart water Level Indicator With Auto Cutoff System

It monitors the water level and triggers a signal to turn off the motor automatically.

• Startup project "Saline water purification" 2024 📅

Aims to create a unique alternative to the traditional RO system, working to build an exclusive design for the system.

• EduCam AI: Smart Event-Driven Classroom Monitoring & Real-Time Alerts. 2025 📅

Multipurpose CCTV monitoring can take attendance & gesture recognition using ROI.

🔧 Work Experience: 2023 - 2025 📅

Internship:

Kovai Classic Industries: Advanced automation & Drone Technology.

- learned about the various components in agricultural drones and technology involved in it.

ChennaiMetroRailway: Research & Development.

- Developed a Predictive Maintenance System for Industrial Technology, leveraging IoT to enhance equipment reliability by 50% and reduce downtime by 45%. Implemented real-time monitoring and fault prediction, improving maintenance efficiency by 70%.