# FIAZ KHAN. A

mr.5azkon@gmail.com

(6) Electronics Enthusiast & Aspiring Embedded Systems Engineer with a passion for innovating cutting-edge solutions to address societal challenges. Strongly driven to learn and implement emerging technologies in IoT, Embedded Systems, and AIoT. 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)

## Relevant Coursework:

Incredible Electronics, Advanced Electronics, Embedded system, Satellite development, Al teachable machine, python game development, Microcontrollers & microprocessors, Altium designer, C programming, Home automation, Prompt engineering, IOT & electronics.

# (\*) Technical skills:

- Programming Languages: C, C++, Python.
- · Hardware Tools: ATmega 328P, RP2040, ESP32, Sensors & Actuators.
- Software Tools: Proteus, Altium designer, Photoshop, Adobe illustrator, Cisco packet tracer.
- AI & Edge Computing: TensorFlow Lite, OpenCv, Teachable machine.

Other Skills: Soldering, first responder, Graphic designer, CCTV installation, Sales and service.

#### Hard skills:

Circuit design & analysis, soldering & assembly, testing & troubleshooting.

## Soft Skills:

Problem-Solving & Debugging, Team Collaboration & Leadership, Critical Thinking & Innovation.

# - Projects:

· 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 Al: Smart Event-Driven Classroom Monitoring & Real-Time Alerts. 2025 Multipurpose CCTV monitoring can take attendance & gesture recognisation using ROI.

# Work Experience: 2021 - 2023

Service Technician - skilled in CCTV installation, Electrical Wiring and Networking.

- · 2 years experience [part-time]
- · Knowledge in IP and analog cameras, Basic Networking.

#### Graphic Design Freelancer

- Proficient in Adobe Photoshop & Illustrator.
- · 2 years experience in graphic design.
- · Designed college brochures and social media posts, managed multiple projects.

## 2023 - 2025

#### Freelance Trainer:

- · Worked as a Programming instructor at various colleges.
- · Vendors: EduCoast , Pyramid , Yardstick.

## 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%.



## **Extracurricular Activities**



## National service scheme

Position: NSS coordinator

- Drives impactful initiatives for positive change
- Dedication and passion for service.

## **ALERT**

Position: First responder

- · Skilled in CPR and defibrillation.
- Provides rapid, effective medical assistance.