J MUKTHAR SHAKIR

EMBEDDED SYSTEM / IOT DEVELOPER

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PROFESSIONAL SUMMARY

Aspiring IoT and Embedded Systems Developer transitioning from professional software development into embedded engineering. Hands-on experience building **ESP32-based IoT projects using C++ and PlatformIO**, with practical knowledge of microcontrollers, **GPIO, sensors, actuators, and communication protocols** including UART, I²C, and SPI. Familiar with Wi-Fi-based IoT communication, HTTP, WebSocket, and embedded system fundamentals including RISC and CISC architectures.

Seeking an entry-level IoT Developer, Embedded Systems Developer, or Embedded C++ Engineer role to apply strong software development and problem-solving experience while building production-oriented embedded and IoT solutions.

TECHNICAL SKILLS

- Embedded & IoT: **ESP32** / ESP-WROOM-32, Microcontroller Programming, **Embedded Systems Fundamentals**, GPIO, PWM, Sensors & Actuators, Hardware–Software Integration, Embedded Debugging
- Programming Languages: **C++ (Embedded Development), Python, PHP, Dart**
- Communication & IoT Protocols: UART, I²C, SPI, Wi-Fi, HTTP/REST, WebSocket
- Development Tools & Platforms: **PlatformIO**, Visual Studio Code, **Git**, **GitHub**, **Linux**, **Docker**
- Software Development: Django, Flask, **Flutter**, **Supabase**, Laravel, CodeIgniter, **LAMP Stack**
- Other: Networking Fundamentals, **Automation & Scripting, Web Scraping, Cybersecurity Fundamentals, Problem Solving & Debugging**

EDUCATION

RAAK College Of Engineering & Technology. Mar 2019 - Aug 2023

B.Tech, Computer Science Engineering - 7.4 CGPA

Related: Managed College's website. Tutored juniors in area of coding. Worked with other python developers. Worked in web scraping and ventured cyber security.

EXPERIENCE

eVenturers Solutions PVT-LTD Oct 2023 - Apr 2026

PHP Web developer - (2 & half years experience)

- Full-stack PHP Web Developer with deep expertise in the LAMP stack and modern architectural patterns (MVC, MVVM), leveraging extensive experience in e-commerce platforms such as PrestaShop alongside frameworks including Laravel and CodeIgniter.
- Recognized for technical leadership, a strong passion for Linux system optimization, and the ability to drive collaborative, high-performing teams through the effective implementation of Git pipelines, jQuery, and TypeScript.

OTHER INFOS

Languages: **Urdu** (Native), **English** (Professional), **Hindi** (Conversational), **Tamil** (Professional)
Current Status: Learning about drone and in depth debugging analysis.

CERTIFICATES

Internship on Embedded System Design

Google Digital Marketing & E-commerce

PROJECTS

- **Orientation Visualizer**
- **ESP32 web controlled Car**
- **ESP32 learning by doing projects**