

Akash Gaikwad

Phone: +91 88886 99298 | Email: akashgaikwad@outlook.in | LinkedIn: [Link](#)

Address: 124 Ramdev Mandir B/H MIT College, Pune 411038, India

Innovative and results-driven Embedded/IoT Engineer with 2+ years of experience in hardware-software integration, firmware development, and IoT protocols. Proven ability to spearhead projects that accelerate development timelines, enhance system performance, and reduce costs. Seeking to leverage expertise in embedded systems and IoT for a forward-thinking organization.

Key Skills

Technical Skills

- Embedded Systems: Firmware development, Bootloaders, Flash Memory
- IoT Solutions: Protocols (LoRa, BLE, MQTT, WiFi), Device integration
- Microcontroller Programming: C/C++, Python, RTOS, Embedded Linux (Kernel Customization)
- Communication Protocols: UART, SPI, I2C
- Sensors & Actuators: Integration and testing
- Development Tools: Docker, PCB Design, Circuit Design, Debugging, Signal Processing
- Machine Learning: Applied in IoT projects (Prediction, Data analysis)

Soft Skills

Leadership | Communication | Problem Solving | Team Collaboration | Time Management | Project Management

Professional Experience

Associate IoT Engineer

Sparkyo Technology Pvt. Ltd. (Syook), Bangalore
June 2023 – September 2024

- Led design and development of IoT sensors and gateway firmware, accelerating development by 20%.
- Integrated over 50 GPS devices and LoRa IoT gateways, achieving 99% deployment accuracy and enhancing connectivity.
- Streamlined Docker deployments, improving system reliability and reducing downtime by 15%.

- Orchestrated UWB testing, resulting in a 10% increase in location accuracy and enhancing system performance for 300+ devices.

Project Engineer

IIT Madras ICSR, Chennai

Nov 2022 - June 2023

- Led the design of ultrasound systems, achieving a 25% cost reduction and reducing dependency on imported systems.
- Developed HMI interfaces, improving user experience and boosting operational efficiency by 60%.

Projects

- Predicting Alzheimer's and Parkinson's: Engineered a machine learning model achieving 95% accuracy in early disease detection, contributing to a 20% improvement in early diagnosis.
- IoT-based Smart Apiculture Monitoring System: Designed and implemented a precision monitoring system that provided real-time data updates, improving honey production efficiency by 15%. Applied machine learning to predict production trends with 90% accuracy.
- IoT-Based Toll Plaza: Developed an automated toll system, reducing manual processing time by 40% and increasing revenue collection efficiency by 40%.

Certifications

- Certified Embedded Software Engineer (NIELIT, Chennai, NSQF Level 7) [Link](#)
- Certified Python Developer (NPTEL) [Link](#)

Leadership

- Founder - Kicktrans Technologies Pvt. Ltd.: Launched over 20 B2B projects, increasing client satisfaction by 35% and revenue by 25%.
- Optimized ERP server management, reducing deployment time by 30%.

Education

Master of Technology in Signal Processing

Pune University College of Engineering, Pune | 2020 - 2022 | CGPA: 7.33

Bachelor of Engineering in Electronics and Communication Engineering

Pune University MIT College of Engineering, Pune | 2014 - 2018 | Percentage: 73.86%