

Anuraj S

Software Engineer | Embedded Systems | Python Developer

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GitHub: <https://github.com/anurajshaji>

Portfolio: <https://unfolding-me.vercel.app/>

Professional Summary

Software Engineer with 3+ years of experience in embedded systems development and Python programming. Proven track record in designing and deploying IoT-based systems, optimizing embedded firmware, and developing mobile applications. Adept at translating project requirements into innovative, efficient, and scalable solutions. Strong team player with a passion for technology and hands-on problem solving.

Technical Skills

Languages: Python, C, C++, Java(Basic), HTML(Basic)

Embedded Platforms: Raspberry Pi, ESP32, PIC Microcontrollers, Arduino

Tools & IDEs: Visual Studio, Android Studio, Arduino IDE, MikroC, Proteus, Altium, MATLAB

Frameworks: Pandas, Numpy, Matplotlib, Scikit-learn, Flask, Streamlit, Bootstrap, OpenCV

Protocols: I2C, SPI, UART, GPIO, MQTT, HTTP, RS232, RS485, BLE, WiFi, ZigBee, LoRa

Technologies: IoT, Face Recognition, QR Code Scanning, OTA Updates, Drone, Incineration, Weighbridge Integration, Web development

Others: Adobe Photoshop, MS Office, Git, Linux (Basic)

Professional Experience

Product Engineer

Chershire Business Services Pvt Ltd, Bangalore | August 2024 – Present

- Led the research, design, and development of multiple embedded system solutions
- Implemented project-based learning with tools like Python, C++, Visual Studio
- Oversaw outsourced project tracking and deployment
- Installed and implemented in-house developed systems

Embedded Systems Trainee

Quest Innovative Solutions Pvt Ltd, Cochin | April 2024 – August 2024

- Gained foundational knowledge in embedded system design and C programming
- Participated in hands-on workshops and project simulations

Embedded Programmer

SVC Enterprises, Cherthala | April 2016 – January 2018

- Developed electronic incinerators for sanitary disposal
- Managed the service and installation of embedded systems

Embedded System Trainer (Freelancer)

Cochin | 2018 – 2019

- Mentored B-Tech students in academic embedded projects
- Built real-time systems including a face detection system using Raspberry Pi and OpenCV

Projects

Ultrasonic Water Flow Meter

- Created firmware to collect flow data and transmit via MQTT
- Documented system functionality, optimizing wireless data transfer

IoT-based Weather Monitoring System

- Built using ESP32 and Arduino IDE
- Monitored rainfall, temperature, wind speed, and humidity for waste site safety

QR Code Scanner App for Event Management

- Developed a mobile app using Android Studio (Java/Kotlin)
- Enabled real-time QR scanning and event check-in validation

Electronic Incinerator System

- Used PIC16F688 and MikroC for safe sanitary waste disposal
- Commercially deployed at various client locations

Face Recognition Access Control

- Implemented real-time face authentication using OpenCV and Raspberry Pi
- Used for home/lab security systems and secure storage units

Education

B.Tech – Electronics and Communication Engineering

College of Engineering, Adoor | CUSAT | 2012 – 2016 | CGPA: 7.27

Higher Secondary Education

SNHSS Sreekandeswaram | Kerala State Board | 2010 – 2012 | 93.14%

10th Grade

St. Joseph Public School, Pattanakkad | ICSE | 2009 – 2010 | 85.41%

Certifications

- Advanced Diploma in Introduction to Internet of Things – Alison
- PCB Design Mastery with Proteus – Alison
- ESP32 OTA: Firmware Update Wirelessly – Alison
- Complete Data Science & ML Bootcamp – Udemy

Achievements & Volunteering

- AAROH-16 Fest (2016): Engineered a quiz system with floor-based numeric input
- Smart Mirror Project: Raised awareness on privacy and safety in public restrooms
- Sales Enablement Trainer (2019–2024): Delivered technical sessions on digital marketing and Canva for sales teams

Interests

- Coding Challenges
- Embedded System Innovation
- Real-time Applications using IoT and AI