ROHAN SHIVAJI KADAM

Embedded Systems & IoT Engineer | Embedded C/C++ | Microcontrollers

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PROFESSIONAL SUMMARY

Electronics and Telecommunication Engineering student (B.Tech, 4th year) with hands-on experience in embedded systems, IoT, PCB design and robotics. Skilled in Embedded C/C++, STM32, ESP32, PIC, and Arduino, with working knowledge of UART, SPI, I2C, CAN, RTOS and Embedded Linux, sensor interfacing, circuit debugging and Wi-Fi/Bluetooth/cloud connectivity. Winner of 10 national- and state-level robotics competitions, with leadership experience as Vice President of a robotics club and team manager of a competition team. Co-inventor of a patent-filed Dual Drive Voltsense ESC.

EDUCATION

B.Tech – Electronics & Telecommunication Engineering **2023 – Present (2027)**
Rajarambapu Institute of Technology (RIT), Islampur CGPA: 6.96/10

Higher Secondary Certificate (12th) **55.83%**
Shikshanmaharshi Dr. Bapuji Salunkhe College, Miraj 2021 – 2023

Secondary School Certificate (10th) – Vidyamandir Prashala, Miraj **90.80%**

INTERNSHIP

IoT and Embedded Systems Intern – Qualitas Techno Solutions **May 2024 (4 Weeks)**

- Developed IoT applications using ESP32, ESP8266 and Arduino microcontrollers.
- Designed embedded circuits with Wi-Fi and cloud connectivity.
- Performed system integration, debugging and testing of hardware and firmware.

PROJECTS

Smart Dual Power Supply & Wi-Fi Function Generator

- Developed a 0–36 V dual-channel digital power supply with an integrated function generator.
- Implemented keypad control and Wi-Fi-based mobile control for adjustable voltage and waveforms.

Smart ESC (Electronic Speed Controller)

- Built a dual-channel ESC with Bluetooth-based monitoring and PWM motor control.

Smart Ration Vending Machine

- Built a biometric-based automated ration distribution system with Google Sheets integration for data logging.

Underground Smart Dustbin System

- Developed an IoT-based waste monitoring system using sensors and wireless connectivity.

TECHNICAL SKILLS

- **Programming:** Embedded C/C++, C, Basic Python
- **Embedded Platforms:** STM32F446RE, ESP32, ESP8266, PIC18F4520, Arduino
- **Operating Systems & RTOS:** Embedded Linux fundamentals, RTOS fundamentals
- **Communication Protocols:** UART/USART, SPI, I2C, CAN fundamentals, TCP/IP fundamentals
- **Development Tools:** STM32CubeIDE, Arduino IDE, Proteus, Tinkercad
- **PCB Design Tools:** EasyEDA
- **Hardware Skills:** PCB design, sensor interfacing, circuit debugging, hardware integration
- **Soft Skills:** Leadership, teamwork, project management, event coordination

LEADERSHIP & POSITIONS OF RESPONSIBILITY

Vice President – E-Yantra & Robotics Club, RIT

- Led a team of innovators in designing, developing and showcasing robotics and embedded systems projects.

Event Coordinator – ETESA, RIT

- Coordinated workshops, project exhibitions and robotics competitions for the Electronics and Telecommunication Engineering Students Association.

ACHIEVEMENTS & PATENT

- Winner of 10 awards in national- and state-level robotics competitions (5 First Prizes and 5 Second Prizes) in Robowar, Roborace, Line Follower Bot and project expos.
- Patent Application No. 202621004269 – Dual Drive Voltsense ESC.