Rohan Shivaji Kadam

Embedded Systems & IoT Engineer (B.Tech, Electronics & Telecommunication)

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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, plus sensor interfacing, circuit debugging and Wi-Fi/Bluetooth/cloud connectivity. Winner of 10 national- and state-level robotics competition awards, with leadership experience as Vice President of a robotics club and team manager of competition teams. Co-inventor of a patent-filed Dual Drive Voltsense ESC.

TECHNICAL SKILLS

Programming: Embedded C/C++, C, Basic Python

Embedded Platforms: STM32F446RE, ESP32, ESP8266, PIC18F4520, Arduino

Operating Systems & RTOS: Embedded Linux Fundamentals, Linux Command Line, RTOS Fundamentals

Communication Protocols: UART/USART, SPI, I2C, CAN Fundamentals, TCP/IP Fundamentals

IoT & Connectivity: Wi-Fi, Bluetooth, Cloud Integration, PWM Control

Development Tools: STM32CubeIDE, Arduino IDE, GCC, Proteus, EasyEDA (PCB Design), Tinkercad

Hardware Skills: PCB Design, GPIO Interfacing, Sensor Interfacing, Circuit Debugging, Hardware Integration

Soft Skills: Leadership, Teamwork, Project Management, Event Coordination

EXPERIENCE

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.

EDUCATION

B.Tech, Electronics and Telecommunication Engineering 2023 – Present (2027)

Rajarambapu Institute of Technology (RIT), Islampur | CGPA: 6.96/10

Higher Secondary Certificate (12th) 2021 – 2023

Shikshanmaharshi Dr. Bapuji Salunkhe College, Miraj | Percentage: 55.83%

Secondary School Certificate (10th) 2021

Vidyamandir Prashala, Miraj | Percentage: 90.80%

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.

Team Manager | Robowar & Roborace Competitions

- Managed design, fabrication and strategy for high-performance robots, leading the team to top positions in national-level competitions.

Event Coordinator | ETESA (Electronics and Telecommunication Engineering Students Association), RIT

- Coordinated workshops, project exhibitions and robotics competitions.

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.