

# Rohan Jagtap

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## PROFILE

Proficient in Embedded C, ARM Cortex series, IoT systems, RTOS development, and Linux operating systems, including Linux device drivers. Skilled in operating systems, data structures, and implementing communication protocols like CAN, UART, I2C, and SPI for seamless hardware-software integration. Demonstrated ability to design and deliver efficient, scalable embedded solutions with a focus on problem-solving, teamwork, and collaboration. Thrives in dynamic environments, contributing to innovative system designs and ensuring robust, real-time performance.

## KEY COMPETENCIES

- Programming Language: C, Embedded C ( Microcontroller programming ).
- Data Structures: Algorithms, Memory Management
- Operating Systems: Linux
- Basic knowledge of IOT
- Device Drivers
- Hardware: Microcontrollers, STM32F407 , Beaglebone Black
- RISC V - ARIES v2.0
- Free RTOS
- ESP32
- IOT - Mqtt ,Coap ,Rest
- BLE,Wifi
- Bus Interfaces - CAN ,UART,SPI I2C
- Strong interpersonal skills
- self-motivated
- Management
- Communication
- Collaborative
- Problem-Solving.
- Critical thinking

## EDUCATION

- PG-Diploma in Embedded System Design with 78 % at C-DAC ACTS, Pune. **AUG 2024 - FEB 2025**
- B. Tech in Electronics with 6.98 CGPA at M S Bidve engineering college, Latur **AUG 2021 - JUNE 2024**
- Diploma in Electronics with 84,47 percent at VDF School of Polytechnic, Latur **AUG 2019 - JUNE 2021**
- HSC ( Science ) at Janta Vidhya Mandir JR College Murud, Latur **JUNE 2017 - JUNE 2019**

## PROJECTS

### Smart Car Dashboard :

Developed the CanDrive Smart Dashboard as part of PG-Diploma in Embedded System Design, utilizing STM32, ESP32, CAN bus, FreeRTOS and MQTT for real-time vehicle monitoring. Implemented features for speed, distance, and temperature tracking, with cloud integration via ESP32 and ThingsBoard for remote visualization. Enabled multitasking with FreeRTOS for efficient sensor data handling.

## EXTRACURRICULAR ACTIVITIES

- NSS Programme Coordinator
- Kickboxing Athlete

## LANGUAGES

- English
- Hindi
- Marathi