





ROHIT SANGALE

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Objective

To enhance my professional skills, capabilities and knowledge in an organization which recognizes the value of hard work and trusts me with responsibilities and challenges.

Experience

- Bluestar India Ltd** June 2015 - June 2017
Senior Engineer
 - Worked as Firmware developer, IoT platform developer to develop In-house R&D capabilities in the organization. Employed in Research & Development department
 - Worked on many microcontroller platforms such as STM32 and PIC16, successfully developed drivers for them.
 - Developed OTA (Over the Air) capabilities for IoT projects.
 - Exposure to wide domains of IoT like WiFi, MQTT, REST APIs, Edge computing, Sensors, HTTP DOM, NodeJS, Mongo DB etc.
- Treel Mobility Solutions Pvt Ltd** September 2021 - January 2022
Embedded Firmware Engineer
 - Worked as a Firmware Developer, handling a wide range of products. Actively involved and contributed at every stage of product development (conception, reverse engineering, design, etc.)
 - Worked on many microcontroller platforms such as nRF52, KW36, MC60E, successfully developed driver modules and application logic for them.
 - Active involvement in Firmware as well as Hardware development
 - Exposure to technologies like BLE, RF, CAN, J1939

Education

- College of Engineering Pune** 2015
B.Tech in Electronics and Telecommunications

Training Certification

- BSNL-AICTE EETP Programme**
BSNL Platinum Certified Engineer: Training and Proficiency in Telecommunications and Networking concepts

Skills

- Computer Programming: C, C++, Python, Java, SQL, Linux, Git, Bash Scripting
- Web Designing: HTML, CSS, JavaScript, NodeJS, Flask, Django, AWS, Google cloud
- Embedded Skills: Embedded C, RTOS (FreeRTOS), CAN, LIN, J1939, Micropython, Communication Protocols (I2C, SPI, UART, RS232, RS485, Power line communication), PWM, BLE, RF
- Softwares: MATLAB/Octave, Eagle, 4NEC2, Keil, Modelsim, Proteus, Eclipse, MCU Xpresso, CANalyzer, ESP-IDF

Languages

- English - full professional proficiency
- Hindi - Native or Bilingual proficiency

- Marathi - Native or Bilingual proficiency

Projects

- **125 kHz LF writer**
 - Description: 125kHz LF transceiver and nRF52 based system to write application data onto TPMS tags
 - Role: Firmware developer
- **Tracpod Test Firmware**
 - Description: Test Firmware based on Quectel MC60E to rigorously test the Hardware and flag out any defects.
 - Role: Firmware developer
- **GPS based vehicle tracker**
 - Description: ESP-32 based system with NEO 6M GPS module
 - Role: Developer, Circuit Designer
- **Home Automation with Power Monitoring and Backyard Weather Station**
 - Description: ESP8266 and Arduino based DIY project
 - Role: Developer, Circuit Designer
- **Python based Motion CCTV camera**
 - Description : Raspberry pi based DIY project to emulate working of CCTV
 - Role : Developer, Circuit Designer
- **WiFi enabled Smart AC**
 - Description : IoT based project in which a WiFi enabled Airconditioner is controlled through Android/iOS based smartphone. ARM Cortex M0 and FreeRTOS used in the project
 - Role : Firmware developer
- **VRF Remote monitoring system**
 - Description : A internet based system to remotely monitor and control bluestar VRF IV plus IDUs
 - Role : Firm Developer
- **2 array crossed Yagi antenna**
 - Description : A crossed Yagi antenna working on 435.025 MHz for high gain purpose
 - Role : Ground Station team member
- **Automated location tracking and SOS transmission for accidental victims**
 - Description : A smartphone based system to detect serious accident, location of the victim and start a SOS transmission for help
 - Role : Team leader
- **Voice transmitter and receiver using laser**
 - Description : A voice transmitter and receiver in which the voice is modulated on laser light
 - Role : Circuit Designer and Firmware developer

Achievements & Awards

- UPSC CSE Interview Stage - Reached to the Interview Stage of India's toughest and most competitive UPSC civil services Examination

Interests

- Internet of Things, Edge computing
- Machine Learning, Artificial Intelligence
- HAM radios, SDR
- Biosensors

- Anthropology

Curricular Activities

- Member of COEP HAM club
- Member of COEP Satellite Club
- Participant of Kayak Ballet, 85th Regatta

Strengths And Hobbies

- Dedication, Sincerity, Ambition, Strategist
- Electronics Hobbyist, Programming, Video Games, Football