

# RAHUL SHRIDHAR BANSOD

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<https://github.com/rbansod5/Embedded-Projects.git>

## Work History

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**Trainee Engineer - Remiges Technologies Pvt. Ltd. - Navi Mumbai, India**  
Working at Client Location National Stock Exchange at BKC Mumbai - 400070

**Feb 2024 to Present**

### Project Name: Multicast Tick by Tick (NSEIX)

- The Project Involves handling real-time market data, which was multicast via UDP to a Member Server.
- Implemented a mechanism to recover dropped tick data from the Post Trade Market.

Protocols and Technologies: UDP (User Datagram Protocol) | TCP/IP | Shared memory | C | Bash Scripting

## Skills

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- C | C++ | Assembly(8085) | Embedded C (Bare metal and Hardware Abstraction Layer) | SQL
- Intel 8051 | ARM-LPC2148 | RISC-V (CH32V003) | PIC16F886 | AVR Atmega16
- UART | MODBUS | SPI | I2C | ADC | WIFI | Bluetooth | CAN | UDS
- RTOS (STM32F446RE) | FreeRTOS
- IDE : uVision4/5, Embeetle IDE, Atmel Studio IDE, Moun River IDE (Eclipse) | Proteus Simulation
- Linux Internals : IPC
- Bash Shell Scripting
- TCP/IP | UDP

## Other Projects

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1. Mini Project – Customer Product Billing System (C Language | DSA)
2. Mini Project – Library Management System (C language | DSA)
3. Mini Project – Dignostics 8051/LPC2148 Microcontroller Board (LED | KEYPAD | LCD | SWITCH | UART)

## Education

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**Vector India Hyderabad, India | Post Graduate Diploma Advanced Embedded System Course**

**October 2023**

DETAILS VECTOR PROJECT

Title : MULTIPURPOSE E-CARD SYSTEM

Description :

- To Use Single Card for Multiple Applications.
- It should access for voting and store data in EEPROM by using i2c protocol.
- It access ATM to withdraw cash multiple of 100 and update remaining balance in EEPROM.
- It should access pan card details.
- Whenever system is reset but data store in the EEPROM.
- ARM 7 LPC2148 microcontroller is used for this project.

**Priyadarshini College Of Engineering Nagpur, India | Electrical Engineering (Electronics and Power)      November 2020**

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur.

CGPA : 8.13 / Percentage : 73.80%

DETAILS ACADEMIC PROJECT:

Title: REMOTE MONITORING OF EARTHING SYSTEM

(<https://ijarcce.com/wp-content/uploads/2020/05/IJARCCE.2020.9421.pdf>)

Description :

- It is a device which use to monitor resistance of soil
- System measure moisture of the soil
- System should display the value of leakage current, resistivity of soil, moisture level.
- If resistance of soil above permissible limit system gives alarm and turn ON water supply.
- System stored all the real time data in computer.
- PIC 16F886 microcontroller is used.

**Samarth Jr. College Lakhani | Maharashtra, India | HSC (12th Std.) PCMB      February 2014**

Board: Maharashtra State Board of Secondary and Higher Secondary Education, Pune

Percentage : 57.08%

**Samarth Vidyalaya Lakhani | Maharashtra, India | SSC( 10<sup>th</sup> Std.) Science      March 2012**

Board: Maharashtra State Board of Secondary and Higher Secondary Education, Pune.

Percentage : 62.20 %

## **Personal Information**

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Date of Birth : 26 December 1996

Gender : Male

Nationality : Indian

Marital Status : Single

Languages Known : English, Hindi, and Marathi

Permanent Address : Murmadi/Sawri Ward No.4 Behind Gov. Hospital Lakhani Dist:- Bhandara 441804