

# MUNGNATY RAHUL

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## CARRIER OBJECTIVE

To pursue a challenging career with dedication and provide my efficiency to the fullest in a professional organization environment wherever I serve the duties that will discover the potential in me.

## EXPERIENCE:

- STUAM TECHNOLOGIE – Firmware Developer. OCT 2022 – Till Date.

## EDUCATION QUALIFICATION:

- JNTUH University  
M. Tech – ECE (Embedded Systems).
- GITAM University Hyderabad  
B. Tech – ECE.

## AREAS OF EXPERTISE:

- Embedded Programming.
- LINUX.
- USART, I2C, SPI, SMBUS.
- SPI FLASH (SPI BIT BANGING).
- CODE WARRIOR TAP – T2081.
- SYNTHESIZER-LX2694.
- ADMV8526.
- X-Modem (boot loader-STM32).
- LMX2694-TI.
- USB2ANY.
- STM32 CUBE IDE.
- STM32 CUBE MX.
- STM32 CUBE PROGRAMMER.
- SIMPLICITY STUDIO IDE C8051F380.
- SI5341/40 CLOCK BUILDER PRO.

## PROJECTS:

### Project 1

Title: **POWER PC SINGLE BOARD COMPUTER (SBC)**

Team Size: 4

Role: Firmware Developer.

Descriptions:

NXP (Free scale) VME Single Board Computers (SBCs), carrier cards for embedded computing applications. With both conduction-and air –cooled boards available, these products can be applied to a wide variety of embedded application across military, communication, and commercial/industrial markets.

Roles and Responsibilities:

- NOR Booting (u-boot) via FPGA.
- Bring up UART, Temperature Sensor, I2C Mux, and I/O Expander.
- ENETHERNET SGMII (MARVELL PHY), PCI (Serdes lines).

### Project 2

Title: **GLOBAL SYSTEM FOR MOBILE COMMUNICATION**

Team Size: 4

Role: Firmware Developer.

Descriptions:

GSM Recorder RF module consists of two channels with independent input and output ports Channel 1 frequency range 1710 – 2700 MHz with independent bands 1710 – 2170MHz, 2300-2400MHz & 2500 -2700MHz can be individually selected based on requirement. Channel 2 frequency ranges 824 – 5000 MHz with independent bands (1710 – 2170MHz, 2300-2400MHz& 2500 -2700MHz) can be individually selected.

Roles and Responsibilities:

- Integrating UI with SPI.
- Managing GPIO'S

### Project 3

Title: **DIGITAL MOBILE RADIO.**

Team Size: 8

Role: Firmware Developer.

Descriptions:

Digital Mobile Radio (DMR), Model LCR of ICS, open Digital Mobile Radio standard defined in the European Telecommunications Standards Institute (ETSI) Standard TS 102 361 parts 1–4 and used in public safety and commercial solutions around the world. DMR, uses proprietary AMBE+2 vocoder and two-slot TDMA in a 12.5 kHz channel. It offers both voice and data communications and interfacing to external networks. Voice communications offer features as call alert, emergency call, remote monitoring, silent worker, Push-to-Talk ID, radio check, all call, stunning etc. It also offers Greater call capacity, more reliability, Security features, Better call quality, Privacy features, longer battery life, increased spectrum efficiency. DMR are offered in VHF-Very High Frequency and UHF-Ultra High Frequency bands meet MIL-STD-810F/G specifications.

Roles and Responsibilities:

- To Develop Drivers-SPI Flash, Keypad(Alpha Numeric & Numeric)
- Password Authentication
- Bootloader.

**PERSONAL DETAILS:**

Name	:	M. Rahul
Date of Birth	:	04-12-1997
Mother's name	:	Dr K.Aruna
Sex	:	Male
Marital Status	:	Single
Languages Known	:	English, Telugu &Hindi
Nationality	:	Indian

**DECLARATION:**

I hereby declare that the above-mentioned information is true to the best of my knowledge.

Place: Hyderabad

Date:

MUNGANTY RAHUL