

# AKSHAY SINGH

## PROFESSION

FIRMWARE ENGINEER

Experience: 3+ years

Hyderabad, Hitech City

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## SKILLS

C/ Embedded C	● ● ● ● ○
C++	● ● ● ○ ○
Data Structure	● ● ○ ○ ○
Python Core	● ● ○ ○ ○
Schematic design	● ● ● ○ ○
RTOS	● ● ○ ○ ○

## EDUCATION

### SSC / Abhyanand College

Pass out year:- MAY 2012

Percentage: - 85%

### HSC/ Vynketeshwara junior college

Pass out year:- MAY 2014

Percentage: -- 75%

### Degree / S.I.T.C.O.E

Pass out year:- MAY 2018

Percentage: -- 71%

## SOCIAL

<https://www.facebook.com/Rajputakshay singh>

[www.twitter.com/Akshay](http://www.twitter.com/Akshay) Singh

[www.linkedin.com/in/akshay-singh-32b020129/](http://www.linkedin.com/in/akshay-singh-32b020129/)

## HOBBY

Travelling | Cricket | Singing | Cooking

# WORK EXPERIENCE

## ● C Developer / A-Paul Instrument Pvt Ltd.

**NAGPUR SMART CITY BUS DISPLAY/TEST CODE**

**FEB 2019-AUG2019**

### Work as a Embedded C Developer /Tester .

GSM module and WIFI module switch automatically according to the Network connectivity.

Bus Stop Display communicating with server by TCP/IP protocol and display the data (bus information).

## ● C Developer / N-Soft India Pvt Ltd.

**WATER LEVEL, WATER METER, GAS METER, ENERGY METER.**

**DEC 2019-OCT 2021**

### Work as a embedded C Developer/Tester.

Water Level Monitor of Rural Tank, Measure the water expenditures, Measure the Gas expenditures, These all data send to server through Lora Device.(Class A ABP method).

Maintain and update the code of energy meter manufacturing. Collect the data from meter with respected to interval of time. Node sending and requesting data from server by Lora (Long range) device (Class C ABP method).

## ● C Developer/ People Tech Group Pvt Ltd.

**E-BIKE ,WEIGHING MACHINE, FETCHING**

**OCT 2021--**

**CAR DATA THROUGH OBD-2 PORT**

### Work as a C Developer/Tester.

Interface Tire Pressure ,Vibration Sensor, Key In Key Out ,Temperature And Humidity ,Theft Lock system, Speed Sensor ,Odometer , Right Indicator and Left Indicator ,Upper and Lower Dipper, Stand Sensor, etc to micro-controller and collect the data and send to the infotainment system through the UART protocol.

Measurement the Weight , Fetch the data from car through the OBD-2 port by using CAN protocol.

Balancing the Cell voltage and measurement current from the BMS. Calculate the SOC and SOH.

## ● C Developer / Vector Institute of Technology and College level

**WEATHER MONITERING SYSTEM**

**NOV 2018—DEC 2018**

**HOME AUTOMATION**

**DEC 2017—APRIL 2018**

Capture the real time information of the climate and store the information.

Control the electric equipment by using the Wi-Fi module.

## ● TOOL DEVICE & SOFTWARE

**Micro-controller:-** STM32L0,L1,L4, STM32F407,29,39 ,PIC16,32, AT89C51

(8051),LPC2148. RL78,RA2A1(Renases).NRF51822, AT89328P

(Arduino),ESP32.

**Programmer :-** ST-Link V2 , J-Link, ICD-2, U-Link, Renases Emulator E1.

## PERSONAL SKILLS

- Positive Minded
- Strong Leadership
- Team Player.
- Self-Motivated
- Dedicated to Work

**Communication Device** :-EMW3080(WIFI), SIM800L(GSM), NRF51822 (BLE -4.0), HC-05(BLE), SX1276(LORA module)RF95, ST3232CDR, ST485ECDR,MCP2515(SPI to CAN).

**Sensor & Other Device** :- AT24CHH(EEPROM), MCP3204 A/D converter, DS1307 RTC, LDR, Ultrasonic Sensor, LM75, DS1621, DHT22 (Temperature and Humidity Sensor), ADXL345, MPU6050(6 axis), MPU9250(9 - Axis), Pulse Sensor (Speed, Water,Gas - Measurement), MPL(Air Pressure), Vibration Sensor, Key In and Key Out , Stand Sensor, LCD (16x2) , ISL94212(BMS), INA238(Current Measurement) , FTDI Chip etc.

**Software** :- KEIL- 5, STMCube IDE, GNU MCU Eclipse , Attolic, STMCubeMX, CS+ Studio, E2 Studio(IDE), Tera Term, Qcom, Dock Light, Real Term, Hyperterminal (Serial Terminal) ,Jira software tool.

**Protocols & Peripherals** :- ADC, Timer, Input Capture Method, Output Compare Method, SPI, I2C, UART, USB (HOST and Device),CAN, RTC, AOA.

## Other Technical Skill

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- Gateway Implementation
- TCP/IP and UDP Protocol
- Linux Operating System
- Basic Knowledge of Hardware Component
- Debugging
- Lora Server ,Node Server
- Bit-Bucket, Putty Application
- Git-Hub
- IPC Mechanism ,Semaphore , Thread ,Socket programming

## PERSONAL INFORMATION

- Father's Name : Mr. Rana Pratap Singh.
- Date Of Birth : July ,07, 1998.
- Address : Shri Ram Nagar, Block B, Kondapur, Hi-Tech City, Hyderabad-500084.

Place :- Hyderabad  
Date :

AKSHAY R.SINGH

