

# SHIVAM CHAUDHARY

## EMBEDDED ENTHUSIAST

### ABOUT

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### EDUCATION

B.tech

KIET Group of institution , GZB [AKTU] India 2015-2019

[Computer Science and Engineering]

### EXPERIENCE

1. Identium tech solution [Embedded intern (Feb -April 2019)]

2. Encoding Enhancers [Embedded engineer ](April 2019-Nov2019)

role : Firmware , FreeRTOS kernel dev , BSP.

3. Co founder at Decompiled.in [a tech podcast]

### AWARDS

GOLD MEDAL INNOTECH KIET 2018 [IOT]

### CERTIFICATION

CYBER SECURITY [ IIT DELHI ]

### SKILLS

#### MICROCONTROLLERS

8051 AVR Atmega family , ARM family ,Cortex M7,M4.

#### PROGRAMMING LANGUAGE

C [DATASTRUCTURES , ALGORITHM , SYSTEM PROGRAMMING [LINUX KERNEL API,LKM,DEVICE DRIVERS]]

Python [Django,Flask,unittest, Autotest]

C++

#### SKILLS

Datastructures, Loadable kernel modules , Linux (Device Drivers), Linux Kernel API , Custom Linux distributions , Drivers (UART,SPI,I2C) , Embedded Firmware

#### OPERATING SYSTEM

LINUX [ARCH ,DEBIAN ] , ANDROID.

RTOS ( FREERTOS, CHIBIOS)

#### DEVELOPMENT BOARDS

IMXRT1050 , TEXAS INST (TIVA-C) , STM32 , ARDUINO , RASPBERRY PI.

#### TOOLS

ATMEL STUDIO , NXP MCUEXPRESSO ,KEIL , AVR 4L , DOCKER , NIKTO , WIRESHARK , METASPLOIT FRAMEWORK , BRUP SUITE

#### DATABASE

MYSQL ,MYSQLI .

#### SECURITY

VULNERABILITY-SCANNING , WEB GATEWAY , PROXY APPLIANCES AND ANTIVIRUS TOOLS .

### PROJECTS

1. HEAT TRACING DEVICES : DEV BOARD [IMXRT1050] ,  
FIRMWARE :FREERTOS

ROLE : EMBEDDED ENGINEER

TASKS : BSP FOR ADC\_ETC TO USE TWO ADC IN THE SHARING MODE ,  
ALGORITHMS FOR RTD CALIBRATION , ISR FOR NVIC VECTOR TABLE

2. SMART FLYING MACHINE : QUAD COPTER

FLIGHT CONTROLLER : KK V5.5 , 1.5

CONTROLLER : FLASK [CONTROLLER OVER HTTP]

BOARDS: RASPBERRY PI , KK

FIRMWARE : ARDUPILOT

3. FIRE DETECTION SYSTEM MOUNT :

RASPBERRY PI

OPEN CV , YOLO (Real time object detection), YOCTO

, DJANGO

4.AUTONOMOUS DRONE ALGORITHMS: PYTHON

ONE COORDINATE TO ANOTHER USING GPS

ARMING , PID CONTROLLING , CALIBRATION

GITHUB :[https://github.com/cvam0000/SFM\\_code-](https://github.com/cvam0000/SFM_code-)

5. CROSS COMPILATION OF RTOS FOR THE MICROCONTROLLERS :

OS : FREERTOS , CHIBIOS , RTLINUX

DEV-BOARDS: RASPBERRY PI , ARDUINO , STM32

GITHUB: <https://github.com/cvam0000/RTOS>

6. ADMIN PANEL : DJANGO , BOOTSTRAP , MARIADB , JAVASCRIPT , REST API

GITHUB: <https://github.com/cvam0000/deletethis>

7. WHATSAPP BOT : JAVASCRIPT [ Auto reply and autofeed to database]

GITHUB : <https://github.com/cvam0000/whatsapp-bot>

8. FOSS MEDIA : SOCIAL MEDIA APP

[ CORE PHP ,SQLI , LAMPP , BOOTSTRAP , JAVASCRIPT ]

9. RC PLANES , QUADCOPTERS