

### Profile

Passionate embedded systems enthusiast with 3 months of industrial internship experience in bsp development, yocto build system and the android build system.

## **Employment History**

### assosiate embedded software intern, Adlink Technologies, Chennai

JULY 2023 - OCTOBER 2023

month 1: worked with yorto project to build linux os for ipi-smarc rb5 company specific board(and documented this process). Also developed testing software(pin loop) for on board spi,gpio and can interface.

month 2: Was part of a team of two in porting and developing android os to lec mtk 1200 board.

month 3: performed firmware and peripheral testing on the boards mentioned above and documented them as per customer requirements.

### Al internship, smartinternz, chennai

JUNE 2023 - JUNE 2023

Used random forest classification to classify toxic comments and created a basic web app that demonstrates the same.

# **Projects**

### Blind Man stick using 8051, asm and embedded c

- Makes use of Ultrasonic sensor and a motor to simulate vibration.

### 8051 based signal generator, embedded c

Use of various algorithms to generate sine wave, square wave and triangular wave.
 With added UI features.

### IOT based Smart keychain (node MCU), ardiuno

- Remote loction tracking of small portable IOT keychain

### IOT based baby monitoring system (node MCU), Embedded c(ESP-IDF)

Live baby video feed, wetness detector, android app, Baby crying detector, (using mic), smart swing control.

### Remote monitoring and feeding of fishes, Ardiuno

- Use of camera, RFID, a monitoring phone app to keep track of fishes and their activities.
- link: https://www.youtube.com/watch?v=j4UJXMk\_sYw&t=22s

### Detection of Arrythmia from ECG, Matlab

- Use of sequential signal processing algorithms to filter the heartbeat from ecg and determine if the particular ecg sample has arrythmia.

### Design and testing of small wearable flexible antenna, HFSS

# Details madurai india 9585533966 shangavelans@gmail.com Skills C,Embedded c java

Android Studio

# **Education**

### Btech in ECE, VIT, Chennai

APRIL 2020 - APRIL 2024

cgpa: 8.7/10

achieved a S grade in a total of 9 courses including microprocessor circuits course, Analog electronic system, Digital signal processing, etc.

### 12th, Chellapan vidhya Mandir, CBSE, Karaikudi

JUNE 2018 - APRIL 2019

percentage: 90%

### 10th, SRV, state board, trichy

APRIL 2017 - MARCH 2018

percentage: 96%

### high school, Montfort, yercaud

JUNE 2010 - MARCH 2017

# **Extra-curricular activities**

Nokia 5g circuitathon, Nokia, chennai

Quantum computing workshop, school of advanced daata science vit

NETSIM HACKATHON, Tetcos

IOT hackathon using STM32, School of electronics vit(SENSE)