



HARIHARASUDHAN K



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EDUCATION

BE – ECE

St Joseph's College Of
Engineering
CGPA –7.8

2022 – 2026

HSC+2 – State board

Vairams. Mat. Hr. Sec. School
83.8%

2022

SKILLS

- C, Python & C++
- PSpice, Matlab
- Working with Raspbeery Pi and APM 2.8
- Circuit Design and Soldering

LANGUAGE

- Tamil
- English
- Hindi

ACHIEVEMENTS

Paper presentation – Runner Up

Sairam college of
engineering

PROFILE

I am an enthusiastic engineer currently in my 3rd year of college, pursuing a degree in Electronics and Communication Engineering. With a strong foundation in programming (C, Python, and C++), Skilled in integrating Raspberry Pi ,flight controllers, and embedded systems, with a growing passion for PCB design and electronics hardware development. Eager to contribute innovative solutions in electronics and gain practical industry experience through a PCB design internship.

WORK EXPERIENCE

- Basic experience with PSPIICE for simulating and analyzing electronic circuits and some basic knowledge in Altium.
- Worked on Raspberry Pi by integrating it with APM 2.8 flight controller and GPS sensors for an Drone system.
- Experienced in working with C, Data structures in C, Python, C++ and Matplotlib

PROJECT

Autonomous Drone System for Rescue Operations during Disaster:

- Developed an autonomous drone to use it for survivor detection and rescuing operation using EDGE.
- Programmed the Raspberry Pi to process sensor data and communicate with the flight controller for autonomous navigation.
- ML model is trained to detect survivors even in collapsed surface

AWTRIS – Autonomous Water Trash Removal and Interception System:

- It is an Boat and Drone interconnected with each other for autonomous trash collection in water bodies. It is currently in development state.

CERTIFICATIONS

- **MATLAB** – Onramp
- **Introduction to programming in C** – NPTEL
- **ADPP(C, C++, Python)** – CSC
- **Introduction to Front-End Development** – META(Coursera)