Swapnil Jadhav

Swapnil-2503.github.io/mywebsite
LinkedIn
+91 9405251793
swapniljadhav6022@gmail.com

Education

Government College of Engineering, Karad, *B. Tech* — ***CGPA: 7.4***
Bachelors in Electronics and Telecommunication — *August 2020 – May 2024*

Chattrapati Shivaji jr. College Osmanabad, *Intermediate (XII)* — **94.92%** (MHT-CET)

Samata High School Osmanabad, Matriculation *(X)* — **85.80%**

Programming Profiles(Problem Solving)

Hackerearth	Leetcode	CodeChef
HackerRank	GeeksforGeeks	Github

Experience

ExpertsHub — **July 2022 – Sep 2022**

IoT Educational Internship at ExpertsHub
*Collaborated with a team of experts to design and develop **IoT projects**.*
Assisted in conducting IoT workshops for students and professionals.
*Gained hands-on experience in working with various sensors and microcontrollers, such as **Raspberry Pi**, Arduino.*

Achievements

Experience
Sih **Hackathon** 2022 rank 7th out of 50 teams at university level (team leader Project- **Virtual visit to Indian pilgrimage**)
Rank 2 for mini project Rain Sense (mini project for academics mentioned in projects section)
2 star coder on Codechef , Problem solving certificate on HacerRank, Solved more than **150 problems** on Leetcode
Prepared aptitude tests as a **responsibility** for the Aptitude Club in college.

Projects

HydrateMe (Water Intake Reminder) — **Mar 2023**

- Designed and implemented a water intake reminder system using an **ultrasonic sensor**, **microcontroller board(Rpi),** and **Bluetooth module**
- Developed a program for the microcontroller board that **reads sensor data** and triggers the reminder system when the water level drops below a set threshold.

A water intake reminder system that uses an ultrasonic sensor, microcontroller board, and Bluetooth module to track and notify users when it's time to drink water.

Tech Stack*: Raspberry pi, Ultrasonic Sensor , Lm35, Bluetooth module, Android Studio*

CropTrack (Sensor Data Monitoring System for Farmers) — **Sep 2022**

- Designed and implemented a sensor data monitoring system for farmers using **ultrasonic sensor, LM35, and DHT11** sensors**.**
- Tested and validated the system to ensure accurate and reliable performance, Demonstrated proficiency in hardware design, **programming**, and web development.

Developed a program to collect sensor data from the microcontroller board and transmit it to a web hosting service for farmers to monitor crop conditions.

Tech Stack*: Raspberry pi, Ultrasonic Sensor ,Dht11, Lm35, RESTful APIs*

RainSense (IoT-based Rainfall Monitoring System) — ***April 2022***

- RainSense is an innovative system that uses Raspberry Pi, ultrasonic sensor, and DHT11 sensor to **measure rainfall, humidity, and** temperature in real-time

The system is not only helpful for weather monitoring but can also be useful for agriculture, irrigation, and other similar applications. ***Tech Stack:*** *Rsapberry pi, Ultrasonic Sensor ,Python programming*

Technical Skills and Technologies:

Circuit design and simulation software: Proteus
Microcontroller Programming IDE: Keil, Arduino IDE
Programming Languages: Python, C , C++, VHDL for embedded system development. Java, JavaScript
Hardware Tools: Oscilloscopes, Signal generators, Multimeters, Spectrum Analyzers
Telecommunication Technologies: RF systems, cellular networks, Wi-Fi, Bluetooth, Zigbee
Communication Protocols: CAN, SPI, I2C, UART
Operating Systems: Linux, Windows, Raspberry pi OS Embedded RTOS
Microcontrollers: Arduino, Raspberry Pi, 8051
Coursework: Embedded Systems, VLSI, Operating Systems, Computer Networks, IOT, Signal and Systems