

MOUMITA PAL

Bardhaman, West Bengal

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Skills

- **Programming:** C++ (Data Structures and Algorithms: Searching, Sorting, Loops, Arrays, Strings), Object-Oriented Programming (Encapsulation, Inheritance, Polymorphism, Abstraction)
- **SAP ABAP** (Beginner Level): Internal Tables, Data Objects, DDIC
- **Cloud:** ThingSpeak cloud
- **Tools and IDE:** Visual Studio Code, Arduino IDE
- **Hardware Platforms:** ESP32, Arduino UNO

Projects

Smart health care system using IoT

Developed an IoT-based healthcare monitoring system to perform basic health checkups (temperature, heart rate, SpO₂, humidity). Data is transmitted to ThingSpeak Cloud for remote access via mobile or laptop.

Hardware Requirements:- ESP32, Heart Rate Pulse Sensor Module, DHT11 Temperature sensor, MAX30100, Jumper Wire, Breadboard. Software requirements:- Arduino compiler IDE, ThingSpeak(Cloud service) .

Alcohol detection helmet

Designed an alcohol detection helmet to enhance road safety by preventing drunk driving. The system disables vehicle ignition if alcohol is detected.

Integrated Arduino UNO, Alcohol Sensor, Motor Driver, Relay, and Buzzer with a helmet for real-time safety alerts.

Tech Stack: Arduino IDE, Arduino UNO, Sensors (Alcohol Detector, Buzzer, RC Transmitter/Receiver), Resistors, Motor Driver, Breadboard.

Education

Swami Vivekananda University

Bachelor of Technology in Electronics and Communication Engineering (CGPA of 8.3)

2022 - 2025

West Bengal, India

K. G. Engineering Institute

Polytechnic in Electronics and Telecommunication Engineering (CGPA of 8.0)

2019 - 2022

West Bengal, India

Bhatar Government ITI

ITI in Computer Hardworking and Networking (CGPA of 7.1)

2017 - 2018

West Bengal, India

Majigram Bisweswari High(+2) School

Higher Secondary (79.70 Percentage)

2016 - 2018

West Bengal, India

Kowarpur High(+2) School

Secondary Education

2015 - 2016

West Bengal, India

Experience

Looking to gain hands-on industry experience and contribute meaningfully to real-world projects.

Certifications

- Algo ++ (DSA): C++, Data structure and algorithm from Code-help 2023
- Cadence based PCB design 21 December 2024

Language

- Bengali (Written and Spoken)
- English (Written and Spoken)
- Hindi (Spoken)