

DISHANTH M

Engineer

Contact

dishanthm26@gmail.com

9513836388

Karnataka, India

About

Electronics and Communication Engineering student at JSSATE-B, passionate about exploring the intersection of technology and innovation. Interested in Electronics, IoT, robotics, and circuit design. Always eager to learn, experiment and work on exciting projects that combine hardware and software. Looking forward to collaborating with like-minded individuals and creating something amazing!

Skills

- C++C++MATLABMATLAB
- Object-Oriented ProgrammingObject-Oriented Programming
- Computer-Aided Design (CAD)Computer-Aided Design (CAD)
- Control SystemControl SystemIoTIoT
- Network AnalysisNetwork Analysis
- Communication SystemsCommunication Systems
- Xilinx ToolXilinx ToolMultisimMultisim
- Cadence Design SystemCadence Design System

Work Experience

JSSATE-B

Dec 2022 - Present

Student

Electronics and Communication Engineering student at JSSATE-B, passionate about exploring the intersection of technology and innovation. Interested in IoT, robotics, and circuit design. Always eager to learn, experiment, and work on exciting projects that combine hardware and software.

- PythonPythonC++C++CC
- Object-Oriented ProgrammingObject-Oriented ProgrammingSystem DesignSystem Design
- Data Structures & AlgorithmsData Structures & AlgorithmsComputer-Aided Design (CAD)Computer-Aided Design (CAD)MATLABMATLAB
- Network AnalysisNetwork AnalysisControl SystemControl SystemCommunication SystemCommunication SystemXilinx ToolXilinx Tool
- MULTISIMMULTISIMCadence Design SystemCadence Design SystemIoTIoT

Education

Sri Kumaran Children's Home CBSE

Jun 2010 - Feb 2020

10TH

Sadhana PU College

Sep 2020 - Apr 2022

12TH/PUC

J.S.S.A.T.E BANGALORE

Aug 2022 - Present

ENGINEERING

Projects

JSSATE-B

Aug 2023 - Aug 2023

TRAIN COLLISION AVOIDANCE SYSTEM

The Train Collision Avoidance System (TCAS) is designed to prevent accidents and enhance rail safety by detecting obstacles on the track. Utilizing ultrasonic sensors and Arduino technology, this system provides real-time warnings to train drivers, reducing the risk of collisions. This project aims to develop a cost-effective, efficient, and reliable safety solution for railway networks, ensuring the safety of passengers, crew, and infrastructure.

- C++C++CC
- Arduino IDEArduino IDE

JSSATE-B

Sep 2024 - Dec 2024

Detection of Combustible Gasses using Smart Nose to Alert the User of Leakage

The "Smart Nose" system is a gas detection solution that uses MQ-2 and MQ-6 sensors to monitor combustible gases like LPG, propane, and butane. When gas levels exceed safe thresholds, it triggers an alert via a buzzer, providing timely warnings to prevent fires and explosions in homes and industries. The system is built around an Arduino UNO microcontroller, enabling real time monitoring and response.

- PythonPythonC++C++CC
- Arduino IDEArduino IDE

JSSATE-B

Mar 2025 - Present

An Efficient Machine Learning based Algorithm for Energy Switching and Theft Detection in Smart Grid

The ML-Based Smart Power Grid project uses machine learning to dynamically select the best power source (solar, wind, battery, grid, generator) based on availability, demand, and cost. It also detects power theft through anomaly detection and optimizes energy management via MATLAB Simulink simulations and IoT-based real-time monitoring, ensuring a reliable, cost-effective, and sustainable power distribution system.

Python

Machine Learning

MATLAB

Simulink

Certifications

MATLAB

Nov 2024 - Nov 2024

MATLAB Object Oriented Programming Onramp

MATLAB

Object-Oriented Programming

C++

Cisco Networking Academy

Oct 2024 - Oct 2024

Python Essentials 2

Python

MATLAB

Jan 2024 - Jan 2024

MATLAB ONRAMP

MATLAB

Cisco Networking Academy

Dec 2023 - Dec 2023

Python Essentials 1

Python

JSSATE-B / Innovact

Mar 2023 - Mar 2023

PCB Designing

PCB Design

DIPTRACE Tool