Vishal R

Contact Information

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Objective

Dynamic and dedicated Electronics and Communication Engineering student with a passion for technology and innovation. Eager to leverage academic knowledge and hands-on experience to contribute to groundbreaking projects in the field of electronics.

Education

Bachelor of Engineering in Electronics and Communication Engineering
SJCE College of Engineering, JSSSTU University, Mysore
Expected Graduation: June 2025

Pre-University Course
SBRR Mahajanas Independent Pre-University College

High School
Podar International School, CBSE
Excel Public School, CBSE
Canara High School, CBSE

Projects

Density Based Traffic Control System: Developed a traffic control system utilizing density sensing techniques to regulate traffic flow efficiently. The system is designed to detect traffic density in different lanes and adjust signal timings accordingly to optimize traffic movement and minimize congestion.

Obstacle Detecting Miniature Car with Alert: Designed and constructed a miniature car equipped with obstacle detection sensors. The car is capable of detecting obstacles in its path and providing real-time alerts to the user, enhancing safety and maneuverability in constrained environments.

Wireless Notice Board: Implemented a wireless notice board system for the real-time display of announcements and messages. The system enables seamless communication within a designated area, allowing users to remotely update and broadcast information without the need for physical notice boards.

Simulation of Noise Cancellation and Signal Reconstruction: Conducted a simulation study on noise cancellation techniques and signal reconstruction methods to improve audio quality. The project involved analyzing different algorithms and digital signal processing techniques to mitigate noise interference and enhance the fidelity of audio signals.

Water Level Detector using Servo Motor: Developed a water level detection system utilizing a servo motor for applications such as tank monitoring and control. The system is designed to accurately measure water levels and provide feedback for automated control or monitoring purposes, ensuring efficient utilization of resources.

STM32 Model for Fire Detection and Extinguishing: Created a fire detection and extinguishing system using the STM32 microcontroller platform. The system incorporates sensors for detecting fire incidents and triggering prompt extinguishing mechanisms to mitigate potential hazards. It aims to enhance safety measures and minimize damage in fire-prone environments.

Movie Recommendation System with and without SVD using Front-end: Implemented a movie recommendation system with and without Singular Value Decomposition (SVD) algorithms, accompanied by a user-friendly front-end interface. The system analyzes user preferences and viewing history to generate personalized movie recommendations, facilitating a more engaging and tailored viewing experience.

Smart Attendance Monitoring System using OpenCV: Developed an attendance monitoring system using OpenCV for real-time face detection and recognition. The system automatically records attendance by recognizing faces of registered individuals captured through camera feeds.

Smart Attendance Monitoring System using Fingerprint Sensor and Cloud Computing: Designed and implemented an attendance monitoring system utilizing a fingerprint sensor for biometric authentication. Attendance data is securely stored and processed using cloud computing infrastructure, enabling access from anywhere and facilitating efficient attendance management.

Liver Cancer Segmentation using Python: Implemented a deep learning-based segmentation model using Python and libraries such as TensorFlow and Keras to detect and segment liver cancer from medical images. The project involved preprocessing medical images, training deep neural networks, and evaluating model performance for accurate cancer detection and diagnosis.

Language Proficiency

English (Fluent)

Hindi (Native)

Kannada (Native)

Technical Skills

Programming Languages: C, C++, MATLAB, Assembly Language, JavaScript, HTML, CSS

Technologies: PLC (Programmable Logic Controller), SCADA (Supervisory Control and Data Acquisition)

Hard Skills: Observation, Decision Making, Management Tasks, Communication, Multi-tasking, Managing and Assigning

Certifications

Certified PLC Programmer

Certified SCADA Engineer

Certified in Embedded IoT Workshop