VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590018

Mini Project Report on

"Vehicle Movement Street Light With Automatic Light Sensing"

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

Submitted By

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CERTIFICATE

This is to certify that the following students,

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has submitted Project synopsis on **"Vehicle Movement Street Light with Automatic Light Sensing"** for VI Semester B.E. in Electronics & Communication Engineering during the academic year 2023-24. The mini project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

Mini Project Guide

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ABSTRACT

Accidents in workplaces, industrial settings, and on roads are a major concern, often leading to injuries, loss of life, and damage to property. To address these issues, we propose a system designed for accident control, recognition, and alerting, coupled with a notification system. This system combines various technologies to monitor environments in real-time and detect potential dangers or accidents as soon as they occur.

The system uses sensors, cameras, and advanced algorithms to constantly analyze the surroundings. When a potential accident is detected, the system can take immediate action, such as shutting down machinery or alerting drivers, to prevent or reduce the severity of the incident. At the same time, the system automatically sends notifications to the relevant people, such as safety officers, managers, or emergency responders. These notifications can be delivered through multiple channels, like text messages, emails, or automated phone calls, ensuring that the right people are informed quickly.

The system is designed to respond rapidly, minimizing the time between accident detection and response, which is crucial in preventing further harm. Additionally, it is built to avoid false alarms by accurately distinguishing between normal operations and potential hazards. By providing real-time information and quick alerts, the system helps to improve safety and reduce the chances of accidents escalating into more serious situations.

In testing scenarios such as factories and traffic management, the system has shown that it can effectively reduce response times and help prevent accidents. This integrated solution not only enhances safety but also helps in maintaining smooth and efficient operations in high-risk environments.