Gps Tracking and GSM Based Vehicle Theft Alert and Engine Locking System

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Abstract: *Vehicle theft is a major concern worldwide, leading to significant financial losses and safety issues. Traditional vehicle security systems such as alarms are often insufficient because they only provide local alerts. This paper presents a GPS and GSM-based vehicle theft detection and engine locking system designed to enhance vehicle security and recovery. The system integrates a GPS module for real-time vehicle location tracking and a GSM module for communication with the owner via SMS alerts. When unauthorized access or theft is detected, the system sends an alert message containing the vehicle's location coordinates. Additionally, the engine can be remotely disabled using a GSM command, preventing further movement of the stolen vehicle. The proposed system is cost-effective, reliable, and suitable for real-time vehicle monitoring applications.*

Keywords: GPS, GSM, Vehicle Theft Detection, Engine Locking System, Arduino Microcontroller