

GPS and GSM Based Vehicle Tracking System

Abstract

Vehicle theft is a significant problem that affects various types of vehicle owners, ranging from those with motorcycles to those with cars, within the context of today's progressive societies. Nevertheless, implementing lost vehicle tracking systems can be financially burdensome, thus presenting challenges for individuals with limited income to access such solutions. Moreover, in situations where vehicles are stolen, owners often rely on authorities' ability to track signals, leaving them dependent on official intervention to recover their stolen vehicles. To address these challenges, our study has taken the initiative to develop a comprehensive vehicle tracking system that empowers owners to track their own vehicles autonomously. Based on the adaptable PIC microcontroller, this cutting-edge system integrates GPS and GSM technologies as well as a practical and functional implementation circuit. By providing an affordable and effective solution, our project strives to enhance vehicle security, minimize dependence on external assistance, and offer peace of mind to vehicle owners in navigating the complexities of vehicle theft and recovery.

Keywords

A vehicle tracking system; GPS and GSM tracking; mobile; PIC