

AN IMPLEMENTATION OF A INFRARED SENSOR FOR A PARKING LOT TRACKING SYSTEM, TO INDICATE AVAILABLE PARKING LOTS TO THE USERS BY AUTO GENERATING AND SENDING A MESSAGE VIA WIFI

Prepared by: Ganesh Kumar A/I Karunagharan

ABSTRACT

In a conventional parking area, a driver usually uses the 'seek and destroy' method of finding parking space. This means once the driver takes the parking ticket from the teller and proceeds to finding available parking areas even if it means, having to engage their sudden breaks when they see another driver coming out or even driving in a one way lane just to get to the parking area first. This method at times can cause 'heavy traffic' in the parking bays because everybody is in a rush to get their parking to the point of waiting several minutes for another driver to come out of the space. This system is proposed to reduce this 'traffic' problem in parking bays, by giving the users the nearest available parking areas. Therefore the drivers can immediately move to that location and not cramp the lanes. In this proposed system the technologies used to indicate the parking bay is taken, is by using Infrared device and to transmit the auto generated a broadcast message via WiFi.

When a car parks in the parking space, it will cut the ongoing transmission from one IR device on top to the one embedded in the ground, this will then indicate that the parking space is taken. This information is sent wired to a receiver system on that specific flow which will mark the parking space as taken and will auto generate and send a broadcast message via WiFi to clients. An access point device will be placed around the parking bay so that the user can constantly receive the message sent by the system.