

For more Project details visit:

<http://www.projectsof8051.com/android-mobile-based-security-lock-for-bike-ignition/>

Code	Project Title
1411	Android mobile based Security lock for Bike ignition

Synopsis for Android mobile based Security lock for Bike ignition

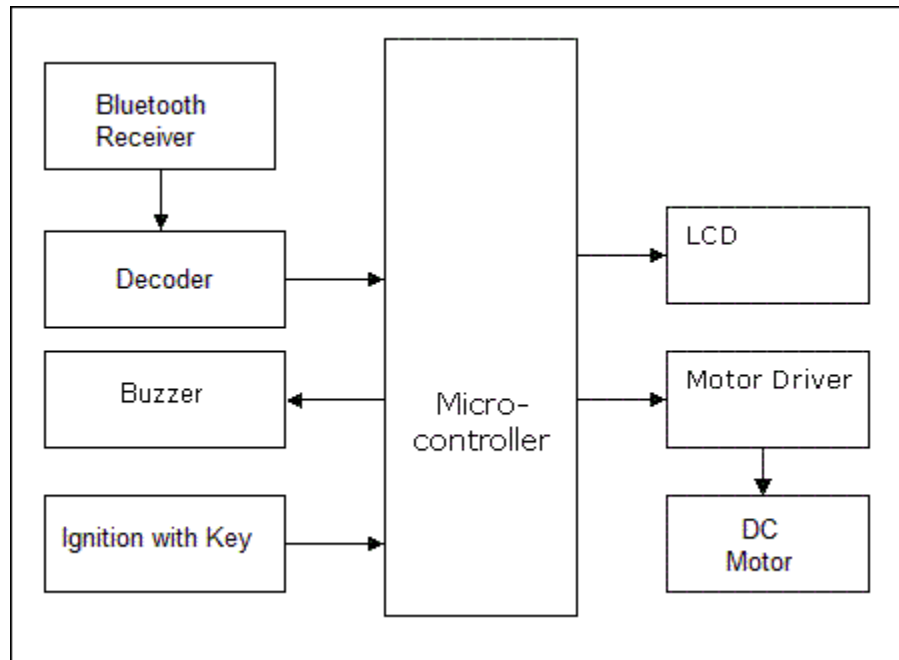
1. Introduction

Android mobile based Security lock for Bike ignition is a replacement for traditional locks in bike. User has to enter password using an Android mobile. If the password is correct then DC motor is rotated. Buzzer is turned on for wrong password. Wireless communication is used to send commands to the project. Bluetooth technology is used in this project.

Many times we forgot to carry the key of our bike or key gets lost. In these cases it is really difficult to get the bike started. This project is designed to solve this purpose. Main concept behind this project is of a relay operating using a password entered through Android mobile. It also turns on the Buzzer when wrong password is entered for multiple times.

Android mobile based Security lock for Bike ignition has its main application in security systems. It can be used in cars, trucks, buses, two-wheelers. We have provided a DC motor to give a demo of bike lock opening. User needs to enter password using an Application on Android mobile.

2. Block Diagram



3. Block Diagram Description

It mainly consists of following blocks

1. Microcontroller: This is the CPU (central processing unit) of our project. We are going to use a microcontroller of 8051 family. The various functions of microcontroller are like:

I. Reading the digital input sent from Android application

II. Sending this data to LCD so that the person operating this project should read the password

III. Sensing the password using Android and to check whether it is a correct password or a wrong password and rotate the stepper motor if the password entered is a correct password.

IV. Sending the data to the computer using serial port. This data consist of the status of entered password (Correct/wrong)

2. LCD: We are going to use 16x2 alphanumeric Liquid Crystal Display (LCD) which means it can display alphabets along with numbers on 2 lines each containing 16 characters.

3. Buzzer: We are going to use a buzzer to indicate the wrong password to open the bike lock.

4. Android application: User will enter the password using the application installed on Android mobile.

Various keys of application are as following,

I. 0 to 9

II. Enter

III. Escape

Application and Advantage:

1) This project can be used in Bikes, Cars and vehicles.

2) This project is easy to use.

Future Development:

1. We can implement other related modules like fire sensor.

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