

FINGER PRINT AUTHENTICATION SYSTEM FOR VEHICLES

AIM:

Design and Development of Finger print authentication system for vehicles.

PURPOSE:

Vehicle security is very important and we can protect them in different ways. There are some security systems which focused on tracking. Tracking is one kind of security for vehicle. But here we want to provide authentication for vehicle at starting stage. Here vehicle will start with ignition key and authorized finger print. To provide this kind of authentication we will suggest system like finger print authentication system for vehicles using Arduino.

DESCRIPTION:

This project includes Finger print module (R307-biometric), which is connected to Arduino through UART interface. L293d connected to Arduino digital pins. Button and relay-siren connected to Arduino digital pins. Ignition key connected to Arduino digital pin.

WORKING:

In these projects only authorized persons can access Vehicle with finger print. Initially users has to store their finger prints in module by pressing enroll button. Whenever user wants to start the vehicle then he has to turn of ignition and keep finger on module then DC motor will ON. Here DC motor nothing but vehicle engine. If any unauthorized finger access then buzzer will be ON. If we turn off ignition then DC motor will be OFF. All this information will display on 16X2 LCD display.



TS FACTORY

TECHNICAL SPECIFICATIONS:

HARDWARE:

Microcontroller : Arduino Uno

Crystal : 16 MHz

LCD : 16X2 LCD

Finger Print Module : Bio-metric Module (R307)

H-bridge IC : L293D

Ignition Key : Dc Connected three pole

Motor : 12V DC

Buzzer : 5vDC

Power Source : 12v 2 amp Adaptor

SOFTWARE:

Arduino IDE

Proteus based circuit diagram

APPLICATIONS:

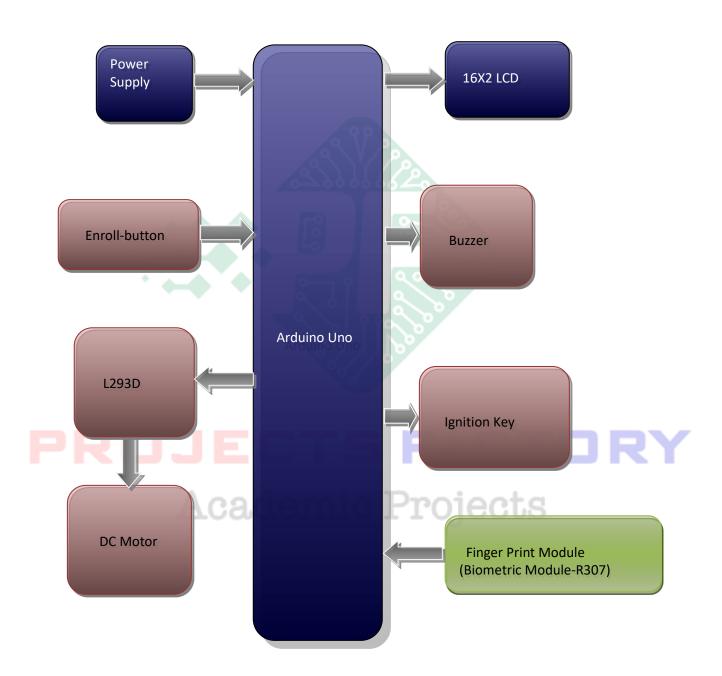
- ➤ Bike Security Applications
- > Car Security Applications

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BLOCK DIAGRAM:

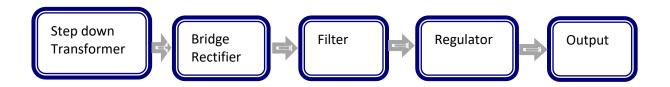


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POWER SUPPLY BLOCKDIAGRAM:



INTERFACES COVERD:

- We have covered finger print module (R307-Biometric Module) interfacing
- L293D h-bridge IC interfacing
- Ignition key interface



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