**VEHICLE IMMOBILIZER USING FINGER PRIENT SCANNING**

**AIM:**

The aim of the project is to design a security system to access the vehicle with finger print module.

**PURPOSE:**

The purpose of the project is to provide a high level security system to our vehicles from being thefts and to give the access control of vehicles to the authorized persons only.

**Block Diagram:**

**MOTOR**

**MICRO CONTROLLER**

**(AT89S52)**

**POWER SUPPLY**

**FINGER PRINT MODULE**

**MAX**

**232**

**LCD Display**

**SECURITY ALARM**

**IGNITION KEY**

**ENROLLING KEYS**

**DRIVER CIRCUIT**

**Description:**

In present days, we are using a key to operate (start/stop) the vehicle. It provides less security to protect the vehicle from thefts. That is why, for providing high level security to vehicle we use the finger print based security system.

The authorized person is provided with the finger print module. When the person wants to operate the vehicle, he needs to press the finger on the finger print scanner. Scanner is interfaced to the micro controller with the serial interfacing. The micro controller reads the data from the scanner. The micro controller allows those users, who are authorized to operate the vehicle. If any unauthorized user tries to operate the vehicle the micro controller switches on the security alarm.

**TECHNOLOGY:**

In present days, computer becomes a main part of human beings for storing information. This information is up to some extent is a secured one. For example the details of employees and students etc... The authority person may only change the details. For this protection we are going to provide a PASSWORD for the PCs. This is secure up to some extent only because there may be a chance of revealing the password or some times the authorized person may forgot the password. So we have to provide security for PCs with a unique and simple to remember identification. One of such identification is the FINGER PRINT.

Fingerprint Scanner is a device for computer Security featuring superior performance, accuracy, durability based on unique NITGEN Fingerprint Biometric Technology. Fingerprint Scanner can be plugged into a computer separately with your mouse. Fingerprint Scanner is very safe and convenient device for security instead of password that is vulnerable to fraud and is hard to remember.

**SOFTWARES:**

1. Embedded C
2. Keil IDE
3. ISP

**HARDWARES:**

1. Micro Controller(AT89S52)
2. Power Supply
3. FINGER PRINT Module
4. MAX-232
5. LCD
6. Alarm
7. Ignition Switch

**RESULT:**

With this project we can provide security to our vehicles from the unauthorized actions and can provide the complete access control to the real owner of the vehicle only.

**ADVANTAGES:**

1. Highly secured

2. More reliable