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Security for Vehicle Ignition System by Finger Print Technology

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Abstract: *In this paper a security for vehicle ignition system by fingerprint technology is implemented. Using this paper the access to a car can be controlled using finger prints. For this an embedded finger print module is used in which the finger prints of the owner and his other authorized users will be fed into the embedded module. This finger print module is further connected to a microcontroller that controls the connection to the ignition of the car. Hence the car can only be started using a proper finger print match. Else the vehicle will not be started and sends an SMS to owner. The project will also include GSM module connected to the controller. In case of some unauthorized person trying to access the car using a unauthorized finger print then the controller, using the GSM module can automatically send SMS to the actual owner of the vehicle. Furthermore, since the controller already has a GSM modem it can also be used for additional applications like alcohol detection, over speed driving. In all these cases, automatic SMS updates can be sent to the owner of the vehicle if someone else is driving the vehicle. If required the vehicle can also be stopped if any of these conditions are detected.*

Keywords: Finger print sensor, GSM module, LCD, DC motor, Microcontroller, Arduino

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