

BIOMETRIC VEHICLE SECURITY DEVICE

(Project Proposal Reference No: 37S0198)

A PROJECT REPORT

Submitted to

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ABSTRACT

This project is to develop an authentication system on two-wheelers based on biometric that can be used to secure the two-wheeler from theft. This project will utilize a fingerprint scanner as the input to acquire fingerprint images and to ignite the engine. When fingerprint is scanned on fingerprint scanner, fingerprint images will be sent into buffer and will be matched with stored data. In this project we need to develop programs that recognize and identify fingerprint as well as to store the fingerprint images. In the memory there will be a lot of information about the fingerprint such as fingerprint pattern, fingerprint classification, fingerprint identification, fingerprint reference point and others. All of this is to match the input fingerprint images with the fingerprint images in the memory. This eliminates the need of keeping track of keys. It can only be opened when an authorized user is present, since there are no keys or combinations to be copied or stolen, or locks that can be picked. The microcontroller AT89S52 interacts with the module. You can add a fingerprint, delete a fingerprint and identify the fingerprint. We have provided two buttons for adding and authenticating the finger prints. If the finger matches then the engine starts if not the error message will be displayed. Also the fingerprint ID is displayed over the LCD display. LCD is also displaying the matched and not matched status.