

ABSTRACT

Nowadays, the development of technology is very rapid, one field-based IT security devices, various types of security has been in the market are applied to products that require security privacy. As the use of passwords on mobile phones and computers, and many other things. The development of security systems increasingly widespread, for example security system using biometrics as a tool to access something. One security biometric fingerprint sensor is better known by the fingerprint sensor is used as an alternative to the security of a device.

The design on the security device using the fingerprint sensor as an input tool combined with SIMCom908 as a tracking tool on the security device. This system runs on an Arduino Uno Minumun system. The work process of the fingerprint sensor is doing fingerprint scanning on whether there is a similarity between the fingerprint images obtained from the verification process with a fingerprint sensor fingerprint images stored in the database during the process of fingerprint sensors enrol. If there is a similarity of the relay will be activated and the vehicle can be turned on, if not then the relay will not be activated. While the GSM + GPS module will automatically turn on when the system is activated, but it will only send the GPS coordinates when given commands via SMS to the device.

In this final project was created with the use of security devices fingerprint sensor / fingerprint sensor is realized as a biometric contacts to turn the motorcycle and also serves as an access control security system of the motorcycle. As well as GPS Tracker system can work properly.

Keywords : fingerprint sensors, GSM + GPS, Arduino UNO, relays, SIMCOM 908.