**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 enrool. 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.

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