

ABSTRACT

In the current motorcycle security system, security is less secure, it can be proven by the report of a motorcycle theft case. Therefore in this final project will make additional security system on motorcycles that use RFID system that is useful to turn on and off the motorcycle engine, GSM module used to send alerts in the form of SMS and with Utilizing GSM technology can also be to turn motorcycle on or off via SMS, and GPS module to track motorcycles, which are based to the Arduino microcontroller. On this system motorcycle key replaced with RFID tag which if the RFID tag in the first tap then will turn on the functionality of the contact key, if at tap for the second time then it will run the starter functionality, and if at tap to The third time will turn off the motorcycle engine, and with the accuracy of RFID reading tag reached 95%.

Keywords: Arduino, RFID, GSM, GPS, Microcontroller