ABSTRACT

Motorcycle is a transportation that a lot of people need to performs daily activities, but the security is fairly easy to be exploited thus making the loss of motorcycle number are quite high. With a help of technology, handphone can be connecting into smart alarm which will be provide to reduce chances of motorcycle being taken away. In this final task has been concluded smart alarm more adapt to the situation, the proposed alarm is an alarm that connected to the smart mobile phone owner of the motorcycle. Smart alarm applied in motorcycles as a sensor to detect the flow of electricity and microcontroller Arduino Mega 2560 R3. The machine will be turned off when there will be an attempted act of thievery, and there will be a notification when there is movements on motorcycle. The result of the system shows motorcycle can be tuned off automatically and notification will be send to the user, meanwhile for the longest response time on system it takes 35,9 ms and 8,5s for a whole system completely. Besides according to power consumption calcullation the system is on.

Keyword : Motorcycle, Smart Alarm, GPS, Arduino Mega 2560 R3.