

ABSTRACT

The mass production of motorcycles has had many impacts on human life, both positive and negative impacts. We can feel the positive impact of mass production of motorcycles through the revolution in transportation vehicles, with motorcycles, humans can travel far and near more efficiently in terms of time. But behind this positive impact, there are negative impacts that can harm humans themselves. The mass production of motorcycles has made the number of motorcycles so large. Due to overpopulation of motorcycles, a lot of polluting occurs, both water, soil and air pollution. In addition, the large population of motorcycles makes controlling and supervising motorcycles increasingly difficult, resulting in the number and prevalence of cases of theft of motorcycles, this problem occurs not only because of a lack of supervision of vehicles, but also because of a lack of public awareness about the importance of a security system and the motorcycle control system, which makes the vehicle so easy to steal. Based on the problems and impacts that occur due to the over population of motorized vehicles and also the number of cases of motorcycle theft, the writing is to make a study to be further designed and implemented, by creating a remote control system for motorcycles based on Android and Arduino, where this control system is mutually exclusive. integrated between a series of electronic tracking devices and also a mobile application called Treky, through this control system, vehicle owners can monitor the current position of their vehicles, as well as turn off and turn on the vehicle without making physical contact with their motorized vehicle.

Keywords: *Arduino Uno, Mobile Application, Integration, Tracker, Security System.*