ABSTRACT

Mobile phones as one of the most widely used telecommunications tools in the community have become one of the basic needs of people that can not be separated. In addition, the mobility needs of people to reach places quickly and efficiently must be met, motorbikes are one of the most widely used means of transportation because they are easy and cheaper on the operational side compared to the mass transportation available today. To take advantage of the development of existing technology, a motorcycle security and lock system is made through NodeMCU-based androids installed on motorbikes that will form a local network between android and NodeMCU, which produces 3400 bit / s throughput on the power range generated between -95 to -48 dBm with round trip time of an average of 9.6 ms to be able to control motorcycle contacts and control motorcycle electricity as a security system, ignition key and also start the engine through an Android phone that has a special application installed that will control the relay installed on motorcycle with a control distance of up to 28 meters.

Key word: NodeMCU, Android, Application, Motorcycle