DESIGN OF RFID-BASED MOTORCYCLE (Radio Frequency Identification) SAFETY SYSTEM AS ECU FLOW DISPUTER TOWARDS COIL

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ABSTRACT

Along with the increasing number of crime of seizure on motorbikes and the absence of an active security system on motorbikes, the purpose of making this tool is to realize the construction of hardware, software, from RFid-Based Motorcycle Security System Tools and knowing the performance of the equipment to minimize crime of seizure of motorized vehicles. The making of this Final Project consists of several stages, namely identification of needs, needs analysis, design of the series, steps for making tools, program flow charts, program design, testing of tools and data retrieval. In designing this tool using RFid as the main control process of the tool. The communication system tool uses RFid as a connecting device by using transmitters and receivers. This tool uses a relay as a switch or switch to turn off a motorcycle engine. The results of this Final Project are in the form of a tool that is able to turn off a motorcycle engine with a limited distance automatically

RFid-based safety devices consist of transmitters as senders of radio frequency signals and receivers as recipients of radio frequency signals, these devices are off when the ECU is cut off with coil, while the conditions on the ECU and coil are connected, battery power affects remote range. In this tool, the 1000mah battery has a range of 60cm, while the 2000mah battery has a range of 110cm.

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Keywords: Security System, Motorcycle, RFid.