MOTORCYCLE STARTER CONTROL SYSTEM DESIGN BASED ON ANDROID

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ABSTRACT

The motorcycle starter control system is a system that functions to control the motorcycle starter remotely using an Android mobile device that has an internet network. This study contains the design of an Android application on a motorcycle starter control system that can turn on or turn off a motorcycle remotely so that there is no need to go to a motorcycle to turn on or turn off the motorcycle. The steps to determine the use of methods in developing a system include data collection, system requirements, system design, interface design, testing, and implementation. System design consists of tool design, and application design. The process for designing a system using the Unified Modeling Language. The design of the tool consists of a nodeMCU which is in charge of channeling the information obtained to other devices such as RTC, and Relays. The design of Android applications can run on the Android operating system platform and has several features including being able to turn on or turn off the motorcycle automatically according to a predetermined hour. This application is also a tool that can secure motorcycles from crime, especially motorcycle theft. The tools used are Arduino IDE and Android Studio and Firebase as realtime databases. The design of a remote motorcycle control system produces applications that can run on the Android operating system.

Keywords: *remote control, Android, application, motorcycle, internet of things*