

ABSTRACT

Remote car key is a tool that can not be separated from the car. This tool is used as the automatic door locking system controllers that exist on automobile vehicles, such as opening and locking the doors, open the trunk, activate and deactivate the alarm. For example, to unlock and lock the car doors can be replaced with a remote control that has been equipped with an alarm and was based Android application. Remote car key but is not yet able to give a message that the state of the car when the car had problems locking the door, because in general the car key remote just write your car alarm via the alarm sound alone, of course this is very problematic if the owner is at a considerable distance from car or outside the scope of the sound of the car alarm. To provide solutions to these problems need a car key remote system that is equipped with warning notifications car remotely. This device is able to activate the central lock and alarm on the car as well as provide remote notification of a state car alert via SMS remote car key applications based on Android.

Application as a remote car keys to give work orders to the microcontroller using Bluetooth technology. After receiving the work order, the microcontroller moves the central lock and activated the car alarm and SMS notification warning if the alarm goes off on the state of the car doors locked.

From the test results, the tool is able to lock and unlock car doors, turn on and turn off the car alarm and sending SMS notifications with the presentation of the state of the car 100% success. To test the distance between the remote bluetooth connectivity with minimum system of 100% on outdoor conditions and 60% in the inter-space conditions.

Keywords: Remote, Microcontroller, Bluetooth, Android, Mobile, SMS Modem.