ABSTRACT

This seminar titled Design Tool Motor Vehicle Safety Systems based on Android, is a security tool for motor vehicles which will provide protection to a motor vehicle with an alarm as a warning system when the vehicle ignition has been opened illegally. The circuit is made using ATMega8 microcontroller as the main components used to run the program logic using the programming language C. Some basic electronics components are also used as a motion sensor / vibration, Relay 12 Volt, Bluetooth HC05, Regulator IC 7805. This alarm system also on use android smartphone as a medium for its applications with visual basic programming. This tool has a perfect condition that if the engine is turn on, it automatically in seconds microcontroller will detect bluetooth signals coming from android, when within 10 seconds with a maximum distance of 2 meters is not detected any signal bluetooth from android then the engine will be turn off and the alarm will be turn on.

Keywords : *Bluetooth HC05 , Microcontroller ATMega8*