

ABSTRACT

keys and cars is a unit that can almost be said to be inseparable. Serrated tool is used as the controller of all existing systems in vehicles such as startengine, unlock and lock the door, opened the trunk. But now some people have tried to create alternatives to the functions of the keys, because there are many tools that rely on technology to replace its role. For example, to open or lock the car doors had been replaced with the remote even been equipped with a sensor alarm. But the problem that arises is that sometimes a person unites the two is remote and car keys, of course this is very problematic because if we do not anticipate the object will disappear from our observations. Then one will easily find our vehicles even pick it up. For that we need an integrated system but has high security.

In this final project has been realized an integrated system such as a remote replacement that has a low security is a key automation using android based applications. Android application system has 4 mode selection functions: to enable and disable the car electrical (key on and key off), start engine, opening and locking doors and activating and deactivating the alarm. This system can be applied through the android phone. To synchronize between android phone and that system will be used a bluetooth, in which information is transmitted phones will be accepted a bluetooth module and the data will be processed in the microcontroller is mounted so that the microcontroller to govern the system works.

Design and realization of android application system is expected to replace the regular remote, but it's does not reduce the basic functions of the remote itself, but there is the addition of a higher security to input a password in the bluetooth pairing process and will be developed for all systems are more complex.

Keywords: Remote, microcontroller, Bluetooth, Android, mobile phones, car