

## **ABSTRACT**

In an age of technological developments such as these home security is something very important. This is because the home is a refuge and a place to store treasures and objects. But unfortunately on a common srumah theft, particularly by destroying the door with a key or screwdriver. Thus the idea emerged to replace the door lock using the other alternative, namely to use flash.

At the end of this project has designed a door lock using a flash. Flash is used as the key normally found on the doors of the house. That way, the previously existing locks of the doors removed and replaced with a USB port that is used to insert the flash. This flash read hardware identity is a vid, pid, and dsn using the USB module and stored in the microcontroller. The flash must be registered to this key system. If you have not registered, it can not be used to access the door. If already registered, then simply insert the flash into the USB port. Then just push the button on the side port to open and close the door.

The output of this final project work is a device that can replace the keys manually using a flash. So that it can increase the security level of a home, especially for security at the door of the house.

**Keywords: flash, Doors, Microcontroller.**