

## **ABSTRACT**

### ***DOOR LOCKING SYSTEM UTILIZES WIFI NETWORK USING SMARTPHONE***

*Locking the door is still widely used manual locking system which is not practical today and need another technology that can replace manual keys are now circulating. The microcontroller can be used to make electronic door locking system which will be given instruction via smartphone by utilize wifi network. The working principle of this system is to use a smartphone which is owned by the homeowner to send commands to utilize the wifi network which will then be forwarded to the microcontroller. Commands that have been sent are later processed by a microcontroller to perform tasks in accordance with such order, once executed the microcontroller will send back a notification utilizing wifi network to smartphones homeowners who will appear in the form of text messages or images on the smartphone display. The end result of this research is that it can generates door locking system that can utilize the wifi network that can be controlled using a smartphone.*

*Key Words : Locking Doors, Microcontroller, Smartphone, Wifi Network.*