

## **ABSTRACT**

*Every house must have a gate equipped with doors, locks, and lights on the inside. It is already a lot of us have encountered in any home that is used for personal and vehicle safety home security conditions. Generally used for indoor lighting setting principles through the manual on-off light switch, and to open the gate and lock pintupun must be done manually by humans. This often results in inconvenience and inefficiency of manual gate, good man who was in the house, or driving a car.*

*Of the problem above, created a system of gate automation and android-based microcontroller as the interface. At the end of the project, created a system on android that can replace the function of the switch, and can open the gate and locked automatically, which can be controlled via mobile phone or android-based gadget that is connected to a bluetooth device.*

*With the establishment of gate automation systems and android-based microcontroller as the interface is expected to allow users to set up lighting, open and lock the gate without having to get out of the car or out of the house and maximize the efficiency of electrical energy.*

*Keywords : Automation System, Ligth, Gate, Lock, Microcontroller, Android*