

## **ABSTRACT**

The development houses in large cities and villages are now familiar to every house using fencing that is used to cover the house to be safe, because the fence is made of steel for its raw materials, so it takes more energy to push when you want to open or close the gate.

The final project is helping homeowners to open or close the gate, because the system is working this tool is to open automatically with just a fence by attaching RFID card on the RFID reader, so no need to push the first fence when trying to enter or exit the house.

The final project has been successfully realized in real fence. RFID cards can be opened automatically by attaching the fence on the RFID reader, and automatically close the gate when an infrared sensor works to detect the presence of an obstacle or not.

***Keywords:*** *RFID card, Arduino Uno, Relay, IR sensors, DC motors.*