

ABSTRACT

The gate is the delimiter between the inner and outer side of a home. In addition, the gateway can increase the security of the House itself, because the first to traverse access to enter the House is the gate. In general there are two models of the gate, that is encouraged and moved. The classic problem of the gate is does it weigh heavy, so it takes effort to open or close it. Especially for the owner of the vehicle is sometimes difficult to open or close the gate because it must come down from the vehicle. Other things when bad weather such as rain certainly adds another problem, because it can result in clothes become wet.

Therefore, this final project can help homeowners especially the owner of the vehicle in the open or close the gate. The workings of these tools by attaching RFID tags to a RFID reader that is in the vehicle, and the device will send a command to open or close the gate to the device that is mounted on the Gate via bluetooth technology, and to drive the gate is a motor dc, as well as minimum system microcontroller acting as appropriate control commands in the program.

In testing using the gate, and the results obtained in accordance with the planning. The process of opening or closing the gate can be done automatically, as well as done wirelessly. The process of identification of the RFID tags can be done at a distance 0 to 3 Centimeters, and bluetooth can be interconnected at a distance of 0 to 7 meters, as well as the motor dc can drive the gate weighing 45 Kilograms to open or close completely.

Key word : *Gate, RFID, Sistem minimum mikrokontroler, Bluetooth, Motor DC.*