

ABSTRACT

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DESIGN OF PARKING SECURITY SYSTEM WITH RFID.

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Keywords: Arduino Mega 2560, Borland Delphi 7, Servo Motor, RFID, Ultrasonic

(xi + 54 + Attachments)

Parking space is a facility that is usually owned by every office, school, and others. The thing to note is the security system, which makes parking users feel safe to park the vehicles they use. The purpose of this paper is to make a device that serves to secure vehicles in the parking lot with a Delphi application connected to a computer that can open the exit bar if there are users who do not have an RFID card. The method used in this study uses RFID Reader and ultrasonic sensor as input media, Arduino Mega 2560 microcontroller as the processing center. From the results of the design and testing that has been done shows that the tool works according to the program that has been implanted in the microcontroller, every rfid tag that is registered will make the exit bar automatically open and close again and if any user who does not have a card can report to the post Take care that there is a Delphi interface that can open the bar. And for the entrance bar using an ultrasonic sensor as a detection sensor for the vehicle that will enter.

Bibliography (2018)