

***PROTOTYPE OF CONTROL SYSTEM PROTOTYPE OPEN AND
CLOSE ENTRY DOORS OF PARKING AREA FOR FAIR
CIRCULATION OF CAR AND MOTORCYCLE IN MACHINERY
ENGINEERING BUILDING
STATE POLYTECHNIC OF BENGKALIS***

Name : Euis Siti Sundari
NIM : 2103181098
Supervisor : Sunarto, S.Pd., M.T.



ABSTRACT

The development of information and communication technology is growing so rapidly and has triggered the development of Internet of Think (IoT) technology. Human life, which is always looking for ways to make life easier, cannot be separated from the development of increasingly modern technology. University or Polytechnic is one of the ideal places in a metropolitan city that provides many facilities for its residents. One of these facilities is the availability of an adequate and comfortable parking area for residents who have vehicles, at this time some universities or polytechnics still use a manual parking system by using someone's services. The problem that arises in this parking system is parking security for users of parking facilities, the orderliness that is still lacking in the parking system. For this reason, a modern parking system is needed that is able to provide security for university or polytechnic residents. Automatic doorstop designed, controlled by Arduino Atmea based microcontroller. The infrared sensor provides input to the microcontroller to open and close the door latch automatically. Radio Frequency Identification (RFID) sensors are used as input media that will read ID cards. If the ID card has not been recorded in the program, the parking system will not open.

Keywords: Parking, Automatic Doorstop, Arduino ATmega, RFID, infrared