

## ABSTRACT

Vehicle parking system in IT Telkom is considered good enough . Proven already holding parking system using RF ID when vehicles will enter and exit the campus . In addition to using RF ID , the parking system using automatic doorstop . However , it's almost 7 months and now the system is no longer used because spare parts are used on damaged doorstop . Then by using matlab program which often experience other thing that causes failed to use this parking system is used and the latch does not sync the way it works . In the sense of whether or not the incoming vehicle , suddenly latch open . Operation of this doorstop matlab programming is also used to process that there was a car coming . Using this application is very long in detecting the presence or absence of cars in and out . Based on these problems , needed an interface that is used for a doorstop in IT Telkom .

The final project is a card using the input tag or KTM are in close proximity to the RFID reader ACR122 . Program to detect the presence of KTM is Delphin 7.0 . Then input from RFID will be detected in the database list the academic community use MySQL database . In the program there is a Delphi 7.0 serial characters will be sent to the ATtiny2313 microcontroller . After the minimum system connected with the crossbar .

The end result of making the final project in the form of open and close the latch parking . To test this interface was tested several KTM to enter or exit through the crossbar . To measure the level of success , then testing the MOS ( Mean Opinion Score ) , which is based on the opinions of 30 people who try to use KTM to unbarred . From these measurements it can be concluded that this system can be used to automatically ubbarred .

Keywords : ATtiny2313 microcontroller , Delphi 7.0 , MySQL database , RFID ACR122