DESIGN AND MAKING PARKING SYSTEM USING MIKROKONTROLER

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Abstract
One of the impact of the increasing number of vehicles in the Surabaya is too difficult when will parking a vehicle in a Big Store, Mall, Market, multipurpose building, etc. The thing that often happens is when a user has entered the parking area, they have disappointed because of full parking area. The problem can be solved in a way to provide information on the display screen of a number of empty parking lot to potential users parking in the area.

In this last project trying to made counter empty parking lot and parking security system using Microcontroller ATMega16. With this tool, count the empty parking lot automatically performed based on the difference between the numbers of vehicles entering throughout the ticket pos. As a number of empty parking lots used seven segment. LCD screen as a plate number typed by the operator. With the keyboard to type the plate number, the printer to print a paper ticket and the stepper motor to open the portal.

The result from this system is displaying the number of empty parking lot on the seven segments. Stepper motor as a portal, open 10 seconds after the printing of paper tickets on the printer, then close it again. Security system of each vehicle realized in a motor vehicle’s number plate with a secret code printed automatically. Operator validating each vehicle will come out of the correct plate number and confidential code. With the secret code is combined with the number plate will be difficult to be imitated by a thief.

Keywords : Microcontroller ATMega 16, Seven Segment, LCD, Keyboard, Printer, Stepper Motor
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