DESIGNING AND DEVELOPING PARKING PAYMENT CALCULATION SYSTEM AT AUTOMATION PARKING AREA BASED ON PC

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Abstract
Parking management in business, commonly found cases of theft and embezzlement of money. Barcode payment system can be a way to prevent theft and embezzlement of money. The purpose of making this final task is to design a tool that can control the cost of parking and the barcode as a means of security parking. Usage automation aims to improve the efficiency and productivity. Method used is the use of microcontroller ATMEGA16 to automation, visual basic programing used to calculate parking and record the data required (such as vehicle license plate number, ID number and barcode time entry-exit). Average value of measurement of power supply 5V is 5,164V. Average value of measurement of power supply 24V is 23,962V. Average value of RPM motor 24 volt without gearbox is ± 1352,3 and with gearbox is ± 20. Duration is the price per hour and per minute. Billing rates are two thousand rupiahs per hour.

Keywords : Microcontroller ATMEGA16,Visual Basic programming.