DESIGN OF PROTOTYPE CONTROL TOOL DOOR DAM BLUETOOTH SYSTEM HC-05

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Abstract

A dam is a building that separates one side from the other in a river, which functions to raise the water level of the river. In addition, the use of dams is used for sectors related to water needs, such as power plants, irrigation systems for rice fields or plantations. Designing orders that used to still use cables or switches and not using cables (wireless).

To solve this problem, a prototype tool was made that was able to open and close the dam door using the Bluetooth HC-05 module as a command data sender to Arduino Uno, the L298 motor driver as a rotation guide, and a rotary encoder as a DC motor rotation counter to determine where the location of the dam door will stop according to what has been determined.

Based on the results of previous tests, the authors can conclude that the dam door opening system using the bluetooth hc-05 module is made to work well and the percentage of success of this tool is 90%, which is a very good success rate tested.

Keywords*: dam door, L298 motor driver, rotary encoder, and dc motor.*