

ABSTRACT

Whiteboard is the main tool in teaching and learning process. Until now, almost all educators in Indonesia still use manual way to remove the blackboard, that is by human power. It takes time that can reduce the efficiency of time teaching and learning activities.

Therefore, a tool made in the form of a microcontroller-based whiteboard eraser by utilizing Motor Stepper as the main component that has been integrated with a microcontroller that will remove the ink on the whiteboard surface that uses 2 pieces of stepper motor as a board drive.

In this final project can provide convenience and time efficiency on the part of the user to clean the whiteboard by simply pressing the push button in accordance with the test results that have been done. From the results of testing the travel time can be concluded that the travel time eraser-based microcontroller with a working area of 90 cm x 60 cm to 8s. In this tool also performed calculations and current measurements with an average value of 0.974A.

Keywords: Microcontroller, push button, Motor Stepper.