

## ABSTRACT

The white board is one of the main facilities in the learning process. These days, almost all educators in Indonesia using the manual method to clean up the white board, by manpower. It takes time to reduce the efficiency of teaching and learning. Therefore, it is a tool in the form of a white board eraser using the wiper as the main component that has integrated with a microcontroller that will clean up the ink marks on the white board automatically without using manpower. The design tool is manifested in a final project entitled "*White Board Wiper Based On Atmega8535 Microcontroller*".

Microcontroller is a component that helps control automatically and can work instructions - instructions. Microcontroller is programmed in advance before. The program used is the C programming language which is a special program for the microcontroller. The working principle of this device is a microcontroller that has been filled with such programs through a series of relay which will then trigger the DC motor to drive the two wiper to clean the ink marks on the white board.

Wiper removal system is already well underway to remove the remaining ink residue that is on the board (white board). The power used is equal to 12,1 Watts. In this tool also measured subjectively by using MOS method. The average value given by the respondents for the benefit of the tool is 4. For ease of tool operation, the average value obtained was 4.73. As for the design of this tool is 3.36

Keywords: *Mikrocontroller, wiper, DC motor.*