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UNIVERSITI
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FACULTY OF MECHANICAL ENGINEERING

DIPLOMA IN MECHANICAL ENGINEERING

EM1106G2

MECHANICAL ENGINEERING DESIGN

PROJECT:

AUTOMATIC WHITEBOARD ERASER

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ABSTRACT

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Title : AUTOMATIC WHITEBOARD ERASER
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Abstract:

The Automatic Whiteboard Eraser is an invention that is used to ease the process of erasing the whiteboard automatically without the use of manpower to save time and energy which indirectly increases the duration process of learning and teaching. This product is specially designed to be portable and uses the simplest moving mechanism for it to operate. This eraser is also lightweight which is approximately below 1.5kg to ease it to be carried. The Automatic Whiteboard Eraser consists of an Arduino circuit and L298N DC motor circuit that is used to control the left and right movement of the eraser. 4 DC motors and 4 highly gripped tires is equipped to the duster to move the eraser in a horizontal axis. This product is also user friendly as the user only needs a single push of a button to power up the product. Besides that, only a small power supply is required for this product to function which is 8x1.5V AA batteries that is equivalent to 12V direct power supply. The target customers of our products are learning institutions in this area such as UniKL, Uitm and Politechnic. We are confident that our product are able to attract these learning institutions as it increases the quality of learning and teaching process of the students and lecturers. This is because the Automatic Whiteboard Eraser does not only saves time during lectures, but it also saves manpower of a person as erasing the contents on the whiteboard can be tiring and time consuming.

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