ARTICULATE ROBOTIC ARM BASED ARDUINO WITH ANDROID CONTROL FOR ARDUINO MICROCONTROL LEARNING IN ATMI CIKARANG

By

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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With the development of mobile technology, it is not only used as a telephone and sms only, but also can be used as a device to control a robot, as well as Android Smart phone are already embedded computer features. Robot technology so can be controlled remotely and the desired user. Robot technology is also one that is able to assist the work of humans, such as the draining of human work, as well as having a high risk. Robot function which was made to minimize the risk associated with large heavy physical tasks, positioning an object, and to move goods from one place to another. Therefore, here is designed a robot movers using a servo motor output arm movement, microcontroller as the brain, Bluetooth as a communication medium to send a data or input from the Android application that acts as a device for controlling a robot remotely. As learning aid successfully tested as well as conducting a survey on the users responses on the developed system.

Keywords : robot, servo motor, bluetooth, microcontroller, android .

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DEDICATION

I dedicate this works for the future of ATMI Cikarang and the country I loved: Indonesia.

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