

ABSTRACT

The development in science that are so rapidly had triggered the birth of technologies that give a positive impact on human life. The robot is one technology that was born as a result of the development of science and today continues to grow rapidly. Using robotic technology, all areas of human work is could be more effective and efficient. For example, the use of technooogy in industrial robotic arm to move a product from one coordinate to another coordinate without rest. It will increase capacity production of the industry. Or the use of robotic arm in a dangerous place for humans, for example in reactive chemistry laboratories, nuclear test room an so on.

In this final project, has been designed and implemented a wireless robot arm controller using a camera module. The concentration of this final project is in the integration between the servo motor, camera modules, microcontroller, wireless module, and PC. Motor used in this final project is a standard servo motor.

Robot arm that has been designed is able to move in accordance with the wisher of users that can be accessed from a considerable distance of transfer video data as far as 7 meters. The maximum load of robot arm is 0,3 Kg.

Keywords: robot arm, servo motors, microcontroller, **wireless**, camera module