

ABSTRACT

Robot world growing a particularly large impact in helping human activities. It was marked by the emergence of various kinds of robots, such as the Aero Robot, Humanoid Robot, Robot on wheels, and etc. Each of robot has a control system, either automatically or manually to regulate the movement of the robot or the system itself. Manual control system which is usually owned by a robot called Remote Control.

Remote Control is also often used on wheeled robots in RC Car that usually used as toys, carriers, and others. However, within the control of the RC car controller on the market is only achieve ± 300 meters, it is due to the influence of the human eye visibility is limited, only able to achieve ± 100 meters. So if we need a controller that is very much so needed also a tool that can help to see the movement of the robot, such as the Wireless Camera, Global Positioning System, and others.

With a controller that can reach to within ≤ 1 KM, of course, will make robots more realistic and has many benefits for people who increasingly rising needs. Therefore, the Final Project will be designed a remote control system that uses Xbee as Tx / Rx will control motors applied to moving objects that using motors.

Keywords: *Remote Control, Robot, motor servo, RC Car, Xbee*