

ABSTRACT

Table tennis is a sport that is loved by both young and old various circles. Table tennis uses a ball made of plastic called a ping-pong ball as well and a paddle made of wood with a rubber coated surface called a bet. This sport is usually played by two or four people. It is very famous even there are some organizations or clubs about this and of them is TTA (Table Tennis Association).

In this study, a table tennis ball throwing robot control system was designed to produce a type of throw based on the speed, rotation and direction of the ball shot. This table tennis ball throwing robot has a speed of 2 to 20 m / s and for direction it can move as far as 45 degrees for left-right and up-down positions. This table tennis ball throwing robot aims to develop players' abilities through independent training.

this final project is expected to be able to get maximum results and be more efficient in using the Table Tennis Throwing Tool. The ping-pong ball throwing robot will be controlled wirelessly using an android application which is can adjust the speed and spin of the ping-pong ball that is fired by the robot.

Keywords: Table Tennis, Ball Direction, APS Application.