

ABSTRACT

Airsoft games are becoming popular nowadays, but with the times and technologies that exist today have created innovations that can make the game from the side rules of play, content and equipment more efficient and accurate. In airsoft games players only use conventional shields that hold the bullet, so it can happen cheating action during the game. However with the basic idea of picking up from the laser tag game, came the innovation to create a Vest that could detect laser light and connect to the database as data storage obtained from game results. Laser Light (Light Amplification by Stimulated Emission of Radiation) is a mechanism that emits electromagnetic radiation waves and high focal point makes the weapon that has been modified with a laser has high precision. The addition light sensor in the form of light-sensitive (light-dependent resistor) LDR to laser sensor that will send data to the main processor in the form of Raspberry Pi 3 model B that will run the main program that has been made and the result is a direct response Vibrations of vibrator motors, LED lights and buzzers, as well as input for the database of mac address of Raspberry Pi 3 which will be recorded in real-time, player status and player's time when shot. How to determine the remaining lives of players by making the system per point is 25 points, after all points are shot then the player is declared dead. Based on the results of this project development made a new innovation in the system of real action game and live war simulation game better, efficient and fairplay.

Keywords: Sensor Laser, Raspberry Pi 3 , Airsoft