ABSTRACT

The need for military equipment is currently mandatory for all countries to maintain the sovereignty of their country. Along with the development of time, weapons technology continues to develop following the needs and goals that continue to grow. Bullet-throwing weapons generally have a manual work system where the user of the weapon must adjust the conditions or targets to be achieved, and the user of the weapon is required to have knowledge and proficiency in the use of weapons.

In the preparation of this final project, the author designed a model to support the bullet launcher which has two-way horizontal and vertical servo control which will determine the direction of the bullet to the target to be achieved. The tool that will be designed is also to support pneumatic-based bullet launchers. This tool is driven automatically through the computer.

From the design that was carried out, it was determined the ability of the servo angle that would move the bullet ejector sleeve as much as 1800 or half a ball. Both servos have the same angle with the control done using a Raspberry Pi microcontroller.

Keywords : *Automatic, Bullet Launcher, Pneumatic , Servo*