ABSTRACT

Tank is armored vehicle that moving with wheel shaped chain, and it has a big cannon. In militari it is one of weapon that has big destruction power and high mobility. With its capability, tank can become one of dengerous machine on war. To overcome that's problem need a sytem that can detect the presence of tank. One of method that can detect the presence of tank is motion detection. This method can detect a moving object by looking at the change/sift pixel values in an image captured by camera.

The system usage is for automatic targeting system, in its design using raspberry pi for manage image processing. Using raspberry pi because fast on booting, low in power usage and not sensitive with power failure. Output from raspberry pi used for input motor driver for moving motor.

This automatic targeting system has faster respon than what human doing. And has high sensitivity to movement. This system has speed process 0.4s with criteria : accuracy to moving object 100%.

Key word : Raspberry pi, *motion detection*, *power failure*