AUTOMATED DEFENCE SYSTEM

A PROJECT REPORT

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ABSTRACT

For every citizen of any country it is his duty to save his country from the external invasion and from the internal disturbances. To serve this purpose the country is producing well capable soldier teams every year which increases the need for efficient soldiers.

This project seeks to investigate the extents to which technology can be applied to weaponry, in order to minimize the number of military causalities. The target audience for this kind of projects is military establishments, who seek to minimize the number of human operators in the field. The proposed system makes use of micro controller to continuously monitor the target area and alert the security system in case of infiltration. The movement of the gun such as pan, tilt and trigger is controlled using servo motors. The camera will record the image and send it to the image processing software. The algorithm used for motion detection is background subtraction algorithm. In these algorithms, a foreground object is detected by comparing the current image with the static background of the scene.

As the use of electronics in warfare is becoming intense, there arises a need to develop a modern warfare technology as described above. The use of electronics in warfare will not only be very effective but will also reduce the military causalities emerging due to war.