

# Defence Security System with Antibombing Technology using Laser Gun

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**Abstract:** Border surveillance is the most difficult and important task for national defense and security. Especially under certain circumstances when activities like terrorists' infiltrations, intrusions and illegal happenings between the borders, it has become utmost important to protect the borders with smart and advance technology. Our project is based on a Border security system which fabricates on border security, by using advance technologies. The main objective of the paper is to describe how the technologies used in this system works and how this will help the soldiers to secure the border of the country. To curb such happenings the least we can do is to constantly monitor across the border and detect intrusions. It takes a lot of man power to stretch over the border and constantly keep an eye, hence the need of the hour is to build such automated border surveillance which can eliminate man power. Moreover, if something suspicious is detected by the system, it must be able to perform necessary actions by issuing an alarm alert and weapon activation system. The central room can be set up within a distance from the border. Once the human controller is aware of intrusion it is upon them to take next course of action.

**Keywords:** PIC18F4520, Metal detector sensor, Ultrasonic Sensor, Servomotor, MQ6 sensor, HC-05, Motor

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