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| University of Central Florida |
| Auto-Targeting System with Friend/Foe Recognition |
| Initial Project and Group Identification Document |

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**Project Concept**

An auto-targeting system with friend or foe recognition (from here on known as a “Sentry Gun”)

Capable of targeting moving individuals based on a video camera system, determining whether or not they are a friendly individual or hostile individual, and then strike them with either a laser or gun of some type to illustrate its full capability.

**Motivation**

The group motivation is predominately to aide soldiers in the field. By setting up this Sentry Gun, a device with a total size of roughly a large suitcase, it would “keep an eye on their backs” so to speak and allow them to focus on other things, alerting them when an unknown target approaches. The Sentry Gun could also aide in securing perimeters lowering the number of soldiers needed to secure an area over any given period of time allowing for more rest for the troops.

**Goals**

1. Light Weight
2. Portable
3. Built with relatively low cost compared to capability
4. Easy to use
5. Mesh with current or perspective military technology
6. Be Accurate
7. Autonomous once initiated
8. Capable of running on portable power unit and or be plugged in

**Specifications**

Need to be listed here

**Diagrams**



**Budget**

This Budget is estimated for the Demonstration Prototype

This Budget gives leeway for a field use unit in production

**Timeline**