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| **1. Name: Matthew Gilene** | **Major: CS** |
| **3. White Paper Submission Number/Total Submissions: 1/3** | |

**4. Summary of Unique Seed Idea (or Seed Idea Number):**

Warden

The concept for my seed idea, currently name *Warden* is a drone built for surveillance designed with military and private sector security in mind. The drone would provide the capability to monitor a designated area and alert the appropriate personnel when there is a breach.

Requirements:

1. The platform shall provide live HD video feed to the operator/control station
2. The platform shall provide live IR video feed to the operator/control station.
3. The platform shall provide live audio feed to the operator/control station.
4. The platform shall patrol between given waypoints.
5. The platform shall recognize hostile targets.
6. The platform shall relay hostile target locations to the operator/control station.

**5. Approach:**

Constraints:

*Non-Technical*:

1. The platform shall use a Raspberry PI 3 Model B to control all non-flight systems and peripherals.

**6: Feasibility:**

**7. Capabilities:**

**8. References**

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