**Revisions #2:**  February 9th, 2014

**Risk:** Full design is not complete. Group coding is delayed due to it.

|  |  |
| --- | --- |
| Week | Activity |
| 3 – Jan 20, 2014 | Order missing elements. Research Python language and required BrickPi libraries. |
| 4 – Jan 27, 2014 | Start design of the turret. Test ordered parts. |
| 5 – Feb 3, 2014 | Status Report #1 – progress to date.  **Continue designing the turret. Include rotation and tilt and also a platform where a small breadboard can be mounted for the PIR Sensor. Turret will rotate the BrickPi as well to avoid wire tanglement.**  *Build turret to design specs.* |
| 6 – Feb 10, 2014 | * **Code the basic core of the turret: The shooting and tilting with appropriate coding ethics. (Kevin)** ***=> Spend 2 hours on Monday, Thursday, and Friday.*** * **Design the bottom, rotating piece of the turret (Nathan)**   *Start coding the turret and build the turret once new parts arrive.*  *Start coding the movement and the shooting mechanism.* |
| X – Feb 17, 2014 | Reading Week, no classes.   * **Continue coding the basic core of the turret. (Kevin)** * **Continue designing the bottom piece if not complete. If complete, code the turret. (Nathan)** * **Research PIR sensor and order extra parts. (Kevin)**   *Build turret and start coding the turret ASAP ( Spend at least 3-4 hours every day)*  *Continue with coding core pieces.* |
| 7 – Feb 24, 2014 | * Research remote controllers to use with Raspberry Pi (Kevin/Nathan) ***=> Spend 2 hours on Monday, Thursday, and Friday.*** * Implement manual mode utilizing a remote controller (Kevin/Nathan) ***=> Spend 2 hours on Monday, Thursday, and Friday.*** * **Continue designing the bottom piece if not complete. If complete, code the turret. (Nathan)**   *Research PIR sensor and start to code automatic mode using the PIR sensor.* |
| 8 – Mar 3, 2014 | Status Report #2 – progress to date.   * Implement manual mode utilizing a remote controller. (Kevin/Nathan) * **Scrap the bottom design if not complete. (Nathan)**   *Continue coding automatic mode.* |
| 9– Mar 10, 2014 | * Research PIR sensor. (Kevin/Nathan) * Build PIR Sensor and perform connections. (Nathan) * Code the PIR Sensor and integrate it with the turret by coding a different mode, automatic mode (Kevin) ***=> Spend 2 hours on Monday, Thursday, and Friday.***   *Research remote controllers to use with Raspberry Pi* |
| 10 – Mar 17, 2014 | * Code the automatic mode or attempt to make the turret aim and shoot at targets by detecting movement. (Kevin/Nathan) ***=> Spend 2 hours on Monday, Thursday, and Friday.***   *Implement manual mode utilizing a remote controller.* |
| 11 – Mar 24, 2014 | * Code the automatic mode or attempt to make the turret aim and shoot at targets by detecting movement. (Kevin/Nathan) ***=> Spend 2 hours on Monday, Thursday, and Friday.*** * Final test and run through. (Kevin/Nathan)   *Final polish of design and code.* |
| 12 – Mar 31, 2014 | Status Report #3 - progress to date. |
| 13 – April 7, 2014 | Physical project complete, completion of report and presentation. |
| 14 – April 14, 2014 | Project Presentation to CNT and the English department. |
| 15 – April 21, 2014 | Project report complete and handed in for grading at the start of the week. |

**Red: Important work to be done which is caused by common risks.**

**Blue: Old plan(s) for the proposed or last revision week.**

**Green: Changed plans that will not change anything to project.**

**Purple: Hours planned to be spent on free time.**