**Product Backlog List**

Sprint 1

* Create Repository
* Install & set up AirSim environment
* Create a single UAV
* Create test case for single UAV
* Create Multiple UAV (4+)
* Create test case for multiple UAV
* Simulate motion for multiple UAVs
* Create test case for multiple UAV motion simulation
* Create “Pong” style game with 2 UAVs
* Create test case for “Pong” game

Sprint 2

* Simulate unified, cohesive swarm of multiple UAVs (6+)
  + UAVs must communicate behavior to all other swarm UAV
* Create test case for unified, cohesive swarm
* UAV swarm must continue “mission” when communication is interrupted
* Simulate multiple UAVs moving together within a Three-Dimensional environment

Sprint 3

* Calculate volume of Three-Dimensional geometric object using UAV swarm
* Create test case of Three-Dimensional geometric object volume calculation
* Calculate volume of Three-Dimensional non-standard object (cloud) using UAV swarm
* Create test case of Three-Dimensional non-standard object volume calculation
* Complete section 1.1 of the System Design Document (SDD)
* Complete section 1.2 of the SDD
* Complete section 1.3 of the SDD
* Complete section 1.4 of the SDD
* Complete section 1.5 of the SDD
* Complete section 2.1 of the SDD
* Complete section 2.2 of the SDD
* Complete section 2.3 of the SDD
* Complete section 3.1 of the SDD
* Complete section 3.2 of the SDD
* Complete section 4.1 of the SDD
* Complete section 4.2 of the SDD
* Complete section 4.3 of the SDD
* Complete section 5.1 of the SDD
* Complete section 5.2 of the SDD
* Complete section 6 of the SDD
* Complete section 1.1 of the System Requirements Specification (SRS)
* Complete section 1.2 of the SRS
* Complete section 1.3 of the SRS
* Complete section 1.4 of the SRS
* Complete section 1.5 of the SRS
* Complete section 2.1 of the SRS
* Complete section 2.2 of the SRS
* Complete section 2.3 of the SRS
* Complete section 2.4 of the SRS
* Complete section 2.5 of the SRS
* Complete section 2.6 of the SRS
* Complete section 2.7 of the SRS
* Complete section 3.1 of the SRS
* Complete section 3.2 of the SRS
* Complete section 3.3 of the SRS
* Complete section 3.4 of the SRS
* Complete section 4.1 of the SRS
* Complete section 4.2 of the SRS
* Complete section 5.1 of the SRS
* Complete section 5.2 of the SRS
* Complete section 5.3 of the SRS
* Complete section 5.4 of the SRS
* Complete section 5.5 of the SRS
* Complete section 6 of the SRS
* Complete section Appendix A of the SRS
* Complete section Appendix B of the SRS
* Complete section Appendix C of the SRS