Grading Test Plan Spring 2016

Deliverables:

- 1) A completed LOBBYIST hovercraft with all features described in the project document.
- 2) A Completed PAC controller with all features described in the project document.
- 3) The ability to control your LOBBYIST using your PAC.
- 4) The ability to control another team's LOBBYIST using your PAC.
- 5) The ability of your LOBBYIST to be controlled using another Team's PAC.

Test plan:

For deliverable #1:

- 1.1 Observe the LOBBYIST, look for a finished appearance and identify:
 - \Box 1.1.1 The lift fan.
 - \Box 1.1.2 A propulsion system
 - □1.1.3 A steering system
 - \Box 1.1.4 a means to indicate Red or Blue Team
 - \Box 1.1.5 a means to indicate the remaining time paired
 - □1.1.6 an electro-mechanical means to indicate the paired status
 - \Box 1.1.7 the badge mounting point
- 1.2 Power up the LOBBYIST.

□The electro-mechanical display of paired status should indicate unpaired.

For deliverable #2 :

2.1 Observe the PAC, look for a finished appearance and identify:

 \Box 3.1.1 The display of active communications.

 \Box 2.1.2 The method for an operator to choose a LOBBYIST

 \Box 2.1.3 Battery power (un-tethered operation)

 \Box 2.1.4 Inputs to the PAC involve at least 3 sensing modalities

2.2 Power up the PAC.

□The display of active communications should indicate unpaired.

For deliverable #3, Using your team's LOBBYIST and PAC with badge mounted:

- 3.1 Initiate the Pairing action and observe:
 - \Box 3.1.1 The display of active communications on the PAC indicates paired.
 - □3.1.2 The electro-mechanical display of paired status on the LOBBYIST should indicate paired

- □3.1.3 The lift Fan should activate
- □3.1.4 The display of Red/Blue on the LOBBYIST should indicate the state shown on the PAC
- □3.1.5 The display of time remaining Paired should begin decreasing
- 3.2 Command the LOBBYIST to move forward and observe:

□3.2.1 The LOBBYIST moves forward.

3.3 Command the LOBBYIST to turn left and observe:

 \Box 3.3.1 The LOBBYIST turns left.

3.4 Command the LOBBYIST to turn right and observe:

□3.4.1 The LOBBYIST turns right.

3.5 Wait for the expiration of the 45 second timer and observe:

□3.5.1 The LOBBYIST indicates unpaired.

 \Box 3.5.2 The PAC indicates unpaired.

□3.5.2 The LOBBYIST ignores attempts to re-pair with the same PAC.

For deliverable #4, **Using your team's PAC and another team's LOBBYIST** with badge mounted: 4.1 Initiate the Pairing action and observe:

- \Box 4.1.1 The display of active communications on the PAC indicates paired.
- □4.1.2 The electro-mechanical display of paired status on the LOBBYIST should indicate paired
- □4.1.3 The lift Fan should activate
- □4.1.4 The display of Red/Blue on the LOBBYIST should indicate the state shown on the PAC
- □4.1.5 The display of time remaining Paired should begin decreasing
- 4.2 Command the LOBBYIST to move forward and observe:

□4.2.1 The LOBBYIST moves forward.

4.3 Command the LOBBYIST to turn left and observe:

 \Box 4.3.1 The LOBBYIST turns left.

4.4 Command the LOBBYIST to turn right and observe:

□4.4.1 The LOBBYIST turns right.

For deliverable #5, Using your team's LOBBYIST and another team's PAC with badge mounted:

- 5.1 Initiate the Pairing action and observe:
 - \Box 5.1.1 The display of active communications on the PAC indicates paired.
 - □5.1.2 The electro-mechanical display of paired status on the LOBBYIST should indicate paired
 - \Box 5.1.3 The lift Fan should activate
 - □5.1.4 The display of Red/Blue on the LOBBYIST should indicate the state shown on the PAC
 - □5.1.5 The display of time remaining Paired should begin decreasing
- 5.2 Command the LOBBYIST to move forward and observe: \Box 5.2.1 The LOBBYIST moves forward.
- 5.3 Command the LOBBYIST to turn left and observe: □5.3.1 The LOBBYIST turns left.
- 5.4 Command the LOBBYIST to turn right and observe: □5.4.1 The LOBBYIST turns right.