**Test Objective/Description:** Autonomous Takeoff (landing in future)

**Location:** Fleming VICON cage

**Date:** November 11, 2015

**Hardware Needed:** Quadcopter, ground station laptop, VICON System

**Procedure:**

Make sure quadcopter is assembled and flight ready.

Make sure all ground station equipment is functional.

Clear flight space.

Run the flight scripts listed under the /Technical/Documentation/howto/ directory of the Github from the ODROID onboard the Aliencopter. Make sure the VICON tracker program is calibrated, and is publishing pose data.

Verify using a rostopic echo call, or a ROS bag file that the copter was able to reach desired altitude upon takeoff to within 10 cm.

**Requirements Met**

|  |  |
| --- | --- |
| **3.1.2** |  |
| **3.1.3** |  |
| **3.1.1** |  |
|  |  |

**Test Anomalies**

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| --- | --- |
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**Test Results:**

The Quad took off and hovered at about 2.0 meters off the ground. It was commanded to hover at 2 meters. This test was done using VICON in the loop.