**University of Florida**

**Department of Electrical Engineering**

**EEL 5666**

**Intelligent Machines Design Laboratory**

**Weekly Report 11**

**Summary**

This week smaller servos (Hitec HS-65HB, 25oz-in at 4.8V, Karbonite gears, 0.92in tall x 0.94in long) were purchased and mounted to provide pitch control by moving batteries. The larger waterproof Traxxas servos were simply too large to move the central axis of the 2” diameter battery rack.

The wings were fabricated. All that remains is to cover the wings with the nylon swimsuit material. A seamstress at JoAnn’s fabrics was found to sew the covers.

A flaw was exposed in the wiring harness. Therefore it will need to be reworked ASAP.

The sonar was integrated into the robot, but the issue with the wiring harness delayed it.

**Figure 1. Solar Ray Wing**