**WEEKLY PROGRESS REPORT**

**Sightline Capstone Project**

**Week 15**

**21 April 2019**

**Tai:**

This week:

Working on the simulation to test the following features:

* Landing and return-to-land
* Set up rangefinder
* Test precision landing

Before setting up precision landing, the recorded altitude wasn’t good which recorded negative altitude. After setting up precision landing, the recorded altitude was a lot better.

Install the Sight line Panel Plus package to test the camera. Unfortunately, my laptop doesn’t have Ethernet port which would help stream video from 1500-hard ware to Sightline Panel Plus. I might find some kind of Ethernet-to-type C converter to see if it works.

**Next week:**

* Plan to do research on serial communication again on both Mission Planner and Qgroundcontrol.
* Try to stream video from 1500-hardware to Panel Plus on my laptop, and stream the video on both Qgroundcontrol and Mission Planner.

**Question:**

**Kimball:**

**This Week:**

* Made the following changes to SLA1500 CAM REV 6.0:
  + Repositioned C15 closer to U1 P4 on ARO134
  + Tied OE\_BAR U1 P23 to ground with 0 ohm resistor R27
  + Added 0 ohm DNP resistor CAM\_GPIO178 to OE\_BAR U1 P23 R26
  + Edited ground planes on top and bottom layers
* Created SLA1500 CAM REV 7.0 document/ pushed changes to Github
* Created SLA1500 CAM REV 7.0 BOM, based on Sightline feedback, and parts in stock, with orderable part numbers pushed changes to [Github](https://github.com/phamtaiece/Capstone-Sightline/blob/master/EAGLE%20files/SLA_1500_CAM_BOM_V7.xlsx)
* Generated gerber files for Manufacturing pushed to Github

**Next Week:**

* Gerber files to Sunstone PCB Manufacturer
* Work on documentation while board is being manufactured/assembled

**Comments/Questions:**

None at this time