

Weekly report

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1 Plan for this week

1.1 Research

- Upload repository. Write introduction. Insert bib files.
- Attach logger to hexacopter and take the first flight
- Find at least two quadcopter dynamic papers

1.2 Swarmathon

- Watch at least two Swarmathon webinar
- Follow up on PCB file request.
- Catch up on Swarmathon forum

1.3 Lab Management

- Re-install door spring
- Install power strip for center table

2 Done this week

2.1 Research

I was going to take the small quadcopter for a flight to take log so I can analyze the structure, but its flight controller isn't working. I'm currently working on making the hexacopter flyable without a take-off platform. The logger is ready, I just need to collect data from it.

2.2 Swarmathon

Finished key request and travel request for Swarmathon team.

Reinstalled Linux on the lab's laptop, they broke it over the break and I didn't realize. However we still can't run the NVIDIA graphic card's driver on Ubuntu 14.04. I'll try installing some alternative like Mint 17 (based on Ubuntu 14.04) this weekend. The Sr. Design team has one laptop installed with Linux and ROS, they're going to try it on another one. They're also going to start on the ROS tutorial.

We've established a weekly meeting at 2 PM. I think they might be free earlier if you would like to move it out of your office hour.

Daniel Bao has been a lot of help in linux installation. I'm having him work on a virtual search algorithm after we have the laptop fully installed. He can use the new laptop as well if it comes with good graphic card support.

2.3 Lab Management

Installed everything as planned. Reorganized the wiring near the lab bench and laser cutter a bit. Did general maintenance on Markforged 3D printer and laser cutter.

3 Plan for next week

3.1 Research

- Fly the hexacopter with the logger attached
- Find analytical model for hexacopter/quadcopter or other multicopters

3.2 Swarmathon

- Reinstall Linux on lab's laptop, try my best to get NVIDIA card driver installed

3.3 Lab Management

- We might need a chemist scale for what Jarrett is doing. I'll pick one out
- Pick out some more PLA plastic to stock up
- Figure out a scheme to manage the 2 printers with Dr. Mayerich
- We finally went through one roll of nylon for the Markforged. I'm wondering if we should get another one.

4 What Dr. Becker need to do

- Sign key and travel requests for Swarmathon
- Buy more paper towels for the lab