

An Nguyen

2016-06-15 Report

1. GOALS for this week

- Switch compressed air system
- Fly hexacopter
- Design new landing gear and payload attachment system
- Make small quadcopter to test autonomous system
- Investigate RTK GNSS systems like swiftnav
- Follow up with Nhan about net GPS logger

2. ACCOMPLISHMENT this week

- Switched compressed air system, no more noisy compressor
- Hexacopter flew
- Ordered swiftnav RTK system
- Emailed Nhan setting up meeting and asking about logger MATLAB script

3D Printer status

3D printer's feeder is still slipping. Bought a knock-off MK8 feeder gear (because it was amazon prime and shipped faster) to replace the stock feeder gear but slipping still persist. One possible reason is the knock-off MK8 feeder gear was not sharp enough. Bought another American made MK8 feeder gear with good reviews that should come by the end of this week earliest, or beginning of next week.

Suggest to buy another Ultimaker as back up/parallel operation for when one printer is down. One possible problem would be the space required for this second printer. I've looked for some smaller printer with the same quality and ease of use, but nothing seems to beat the Ultimaker brand. The Lulzbot TAZ 5 was a close contender, but it seems to require just as much if not more tinkering than the Ultimaker.

Hopefully our printer can be fixed by next week.

3. GOALS for next week

- Put Pixhawk on small quadcopter
- Design new landing gear and payload attachment system
- Fix 3D printer

4. Dr. Becker needs to

- Decide if we want a new 3D printer