12/6/18

ET NavSwarm Weekly Progress Report

Goals for Next Week:

- Continue developing a controller that fits our system dynamics.
- Combine modularity design with chassis and suspension.
- Submit for water jetting quote early next week.
- Finalize order list for bots. Hopefully order parts before break so that we don't waste time waiting for them.

What got done:

- Waterjet quote came in at ~$150 per bot, (~$350 for a one off). Major problem is that material wanted only comes in ⅛ in and needs ½ in. Adjusting models to work with Aluminum instead. Full price sheet for materials other than waterjet parts made as well. ~$115.00 for first bot, less after since some materials come in packs of 100 or 50.
- GPS precision increased.
- Working to develop PSO simulations in Python.
- Working with Pi to XBee communication through USB.
- Many people have been working on a controls based project for S-Lab that can have a direct impact on the project.

Goals for Winter Break:

- Fully construct first bot and place order for remaining bots.
- Use winter break to make up for lost time, this means that almost all tasks, except for some of the larger things like PSO, should be done to allow for construction time and bug testing.