SPARR W



Carrier **?** 4:44 PM 100% ■

(+)

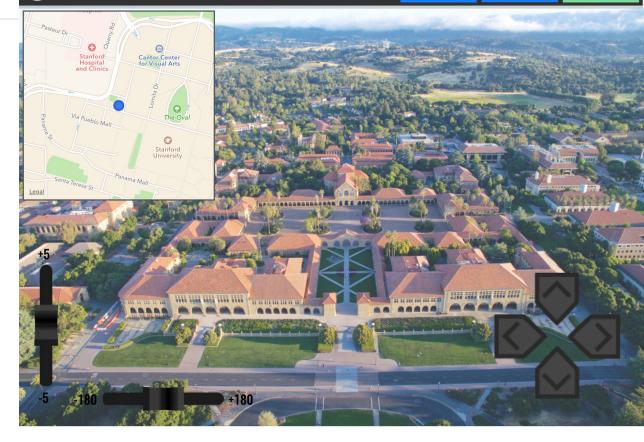
POS (0.000N, 0.000W)

ALT 00

SAR PATH

DROP PIN

LAUNCH





- We added SAR-specific functionality:
 - Added SAR paths, waypoints, and map pins
 - We added server calls so as to constantly poll for updates in the drone's location and broadcast them to the iPad app, in order to update latitude, longitude, and altitude readings and the drone's position on the map. Will add yaw position as well.
- Added the Tango's video/image feed to the iPad app

Drone updates

- We closed the loop between drone, Tango, and server:
 - Wrote code to convert the Tango's local reference coordinates to ECEF and then to geodesic (lat/lon) coordinates.
 - Wrote a custom Mavlink message to send the Tango's "GPS" coordinates to the drone via the server
 - Peplaced in the ArduCopter code get_gps() ->location() with
 get_tango() ->location()
 - Verifying the accuracy of this; it's difficult to do since the Tango only works indoors, and can only get GPS outdoors
- We re-built the Tango mount and tested it, and it's sturdier and more stable than before.



Meeting at SAP today

- Met with Philipp and Karsten at SAP
- Philipp signed our contract of deliverables
- Approved of our pivot in use case from warehouse inventory management to SAR
- Asked us to deliver a live presentation (and demo) at their all-hands meeting this summer (!)



- Thoughts on our contract of deliverables?
- Where will our hardware go after this class is over? Philipp and Karsten expressed interest in acquiring it.