CS 1551R - Day 1

Course website: 
Apply to class online

Build a drone! 
APPLY 10 hrs/ wk

Course aims:
- Safely operate drone
- Understand all components
- Build, Fly, program a small drone

Inputs for Motors
- 4 motors = 4 inputs?

Roll Pitch Yaw

To control R PY need a gyroscope / IMU

Raspberry Pi —> runs ROS (robot OS)

Connect to/from base station

Everything on the drone is open source free! Use Python.

Intro to robotics
- Amazon uses robots to move shelves around in their factories.
- Amazon also wants drone delivery

Use cases
- Search & Rescue
- Inspection

Midterm 10/19

Final 12/14