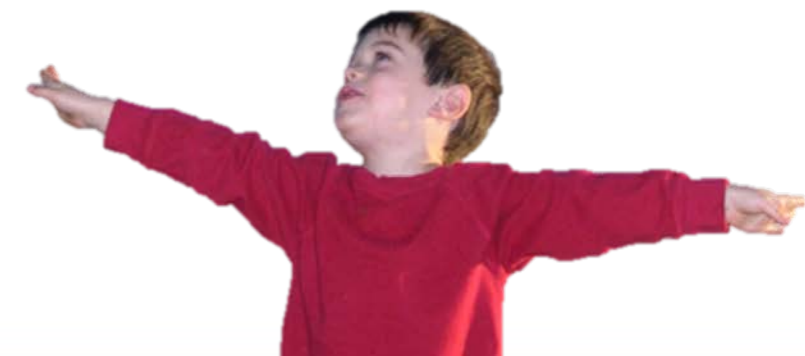




Virtual Flyer





User Persona

- 8 years old
- Enjoys R/C toys and Wii
- Parents willing to spend \$371/year on toys
 - About \$30-\$40 for a single toy





Key Question

- Can we use IMU's to generate gesture data
- Can we construct flight patterns from the collected data

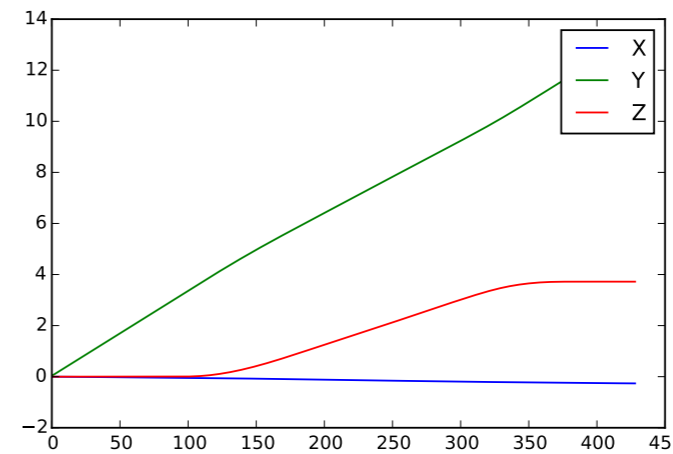
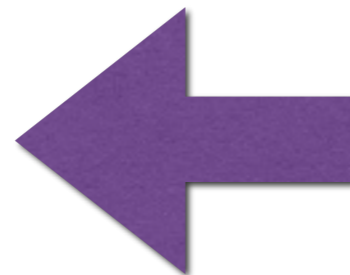
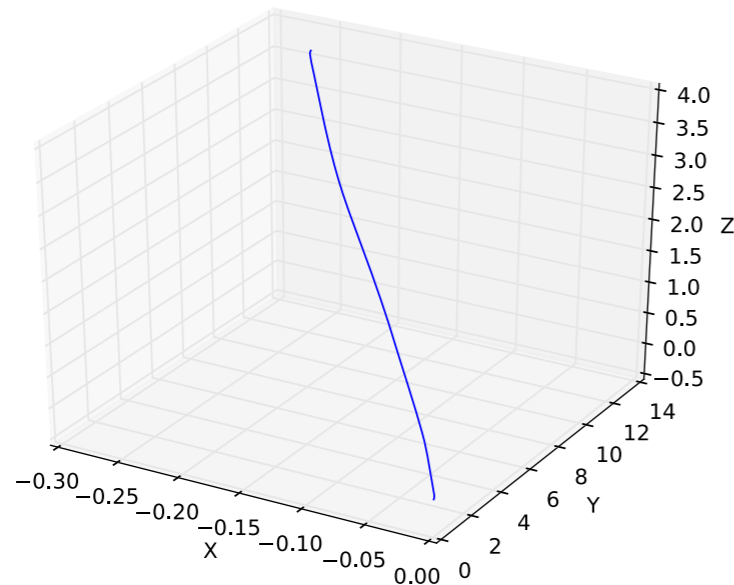
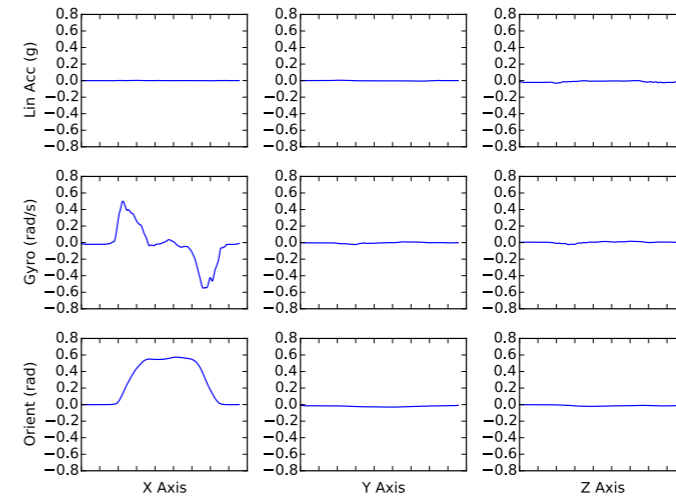
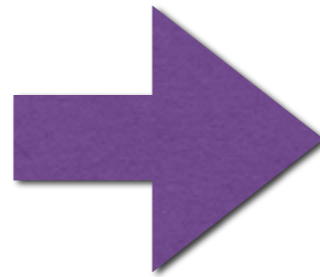


Approach to the Question

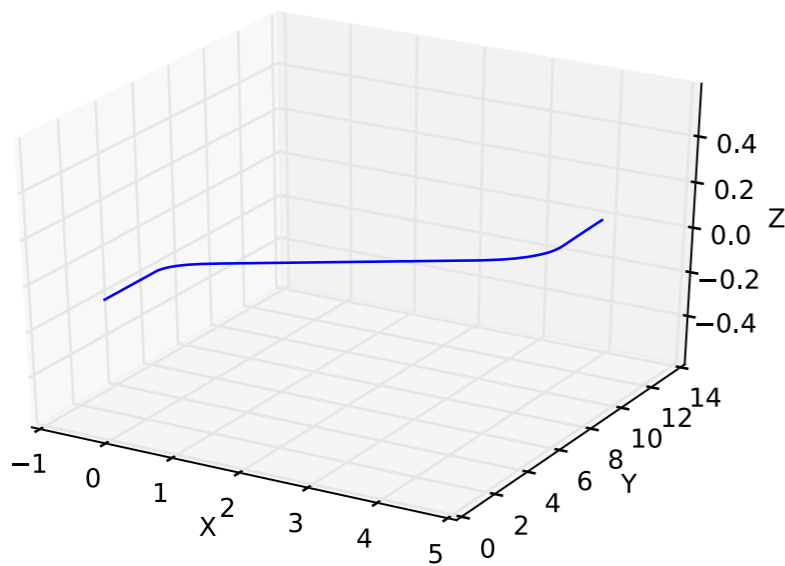
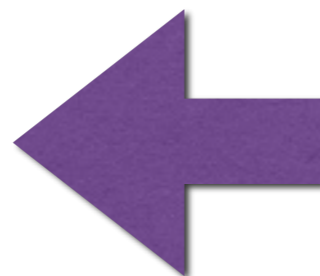
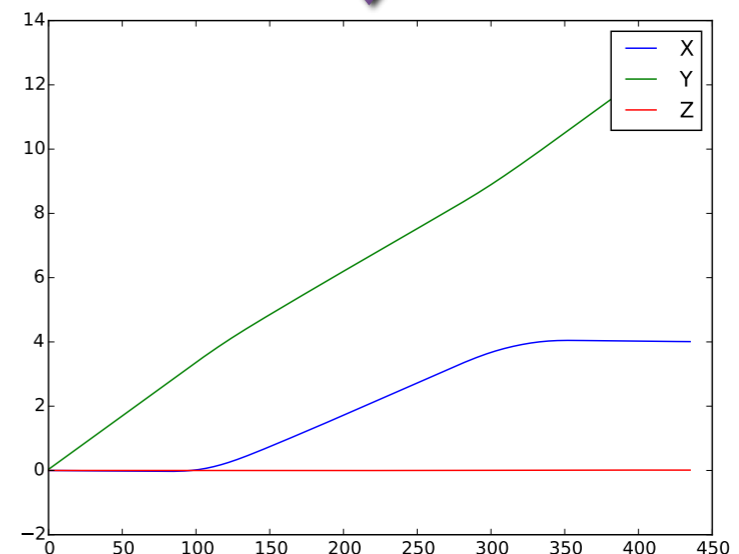
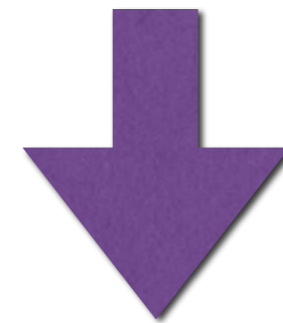
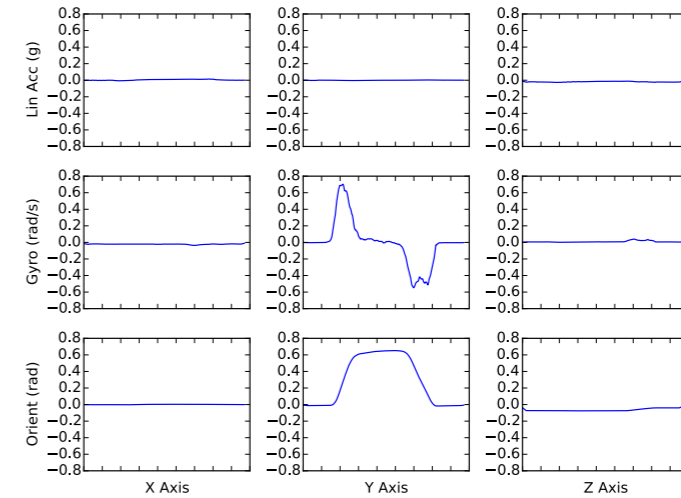
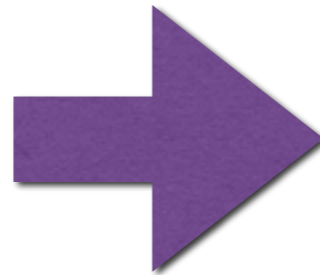
- Compile a set of simple gestures
- Process data from the IMU
- Visualize a trajectory for the aircraft



Gesture: Climb



Gesture: Bank Right





Questions Left Unanswered

- Can we develop a controller that preprocesses and transmits controls live?
- How can we rectify data from a disjoint IMU?

