

Getting Started: Air Brakes

What is the goal of the flight team?

The flight team is responsible for all electronic systems acting during flight time in the rocket. The primary components of which are the Air Brakes and the Parachute deployment.

What is the purpose of the Air Brakes?

The air brakes are used for slowing the rocket as it approaches apogee. The goal of which is to calculate and slow the rocket such that the apogee occurs at 10,000 ft.

What are the major checkpoints for the year?

1. Test or recreate function for predicting apogee.
2. Test apogee function in scale test.
3. Create actuator which will open, and close air brakes based on prediction
4. Develop actuation function
5. Test air brake actuator in scale test

Timeline:

October	November	January	February	March
1	2	3	4	5

Next Steps:

- Review old code for apogee prediction
- Research apogee prediction and look into predictive models