# Queries for prof

## Modelling

1. How does one calculate the inertia tensor?
   1. Solidworks
2. The constants and
3. Do I need to understand the Lagrangian mathematics?
   1. Not Really. Purpose is to get energy
4. New design?
   1. Yes
5. Robmech Paper?

## Answers

1. Yaw differential drag.
2. As the wind goes past the rotors effectiveness going into qind become less
3. Once the rotor moves through air it becomes less effective

According to my understanding I will place the accelerometer as close to the CG as possible and from that I will assume how the rest of the craft is moving. Then I can apply the control laws.

Try find maximum pitches and what not.

# Discussion

Symmetry we can splits into axis.

Inertia tensor cancels out.

Centre of pressure (Forces) is always at the center of gravity.

Because of symmetry the axes coincide the axis.