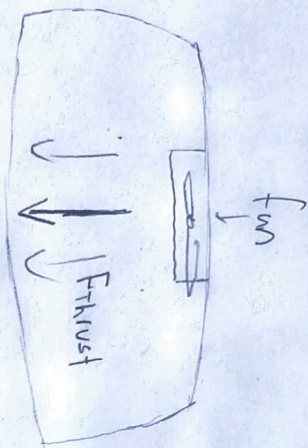


skirt and fan without  
momentum curtain



we take advantage of bernoulli's principle.  
which states that  $Pressure = \frac{Force}{Area}$   
if Area decreases, Pressure increases



momentum curtain



The center of mass cannot be skewed, or else we won't have much control

$$x_{cm} = \frac{m_1 x_1 + m_2 x_2 + m_3 x_3}{m_1 + m_2 + m_3}$$

$x_1, m_1$  = fan and servo position and weight

control

$$x_{cm} = \frac{m_1 x_1 + m_2 x_2 + m_3 x_3}{m_1 + m_2 + m_3}$$

$x_2, m_2$  = Arduino and battery position and weight

$x_3, m_3$  = sensors position and weight.

We must make sure that  $x$  is zero.

ex layout

