11/15/2015 - All

Agenda:

Reflect on design review

Talk about math model - Kylie energy, Jay momentum

Decide next steps

Design Review: short but got most of the information across. Good question and answer section. Nice use of video and really showed what we were trying to do.

Math model – Energy

Jay – lighter the scope, the small the acceleration

Motor vs pneumatic

Motor – quieter,

- -Easier we all used them before
- -may have to turn off the motor right before it hits.
- -Would need a step motor makes it more complicated.

Pneumatic – not going to damage it with abrupt start.

- -we believe we can use Arduino,
- -don't really have to worry about noise because the shop was already noisy.

Next steps: get a small pneumatic rotary

First need to figure out Torque needed to bring it back – mass, distance

Thought about creating a makeshift tube.

Torque –
Mass – .78kg
1.73 lbs
Center of mass – 6inchs
T = 10.2 lbin

Action Items:

Send Pi an email to get accelerometers – Jason

- Ask if he has spare clamps

Get small pneumatic rotary – Jay and Dillon

Dillon – get part number – pneumatic air cylinder, hose adapter, and rubber Jay – buy or find cheaper

Bring in motors - All

Research motors needed -

Torque needed calculations – 10.2 lbin

Design a way to attach -

Meeting Friday at 9:30am – All

- Make an order rubber too
- Talk about research
- Talk about holding the scope.