

Staff Meeting

February 1st, 2018

6:20 PM

- Danny discussed meeting with Dr. Feigenbaum and how she confirmed their analysis as a correct process
- Talked about the team using tube steel
- At 90 degrees deflection is only 0.002 inches
- Talked about the meeting with Dr. Mazumdar
 - He talked about how accelerometers worked
 - Need to talk to suppliers about mV/g to degrees conversion
 - Possibly talk to Dr. Ho about accelerometers and mV/g conversion

6:25 PM

- Mitchell and Jacob began discussing NEMA 24 specs and Unipolar vs. Bipolar aspects
- Jacob discussed degree accuracy to steps per revolution relationship
- Adafruit does a good job of explaining Bipolar vs. Unipolar
- Look at Adafruit shields
- Look at Arduino cook book to research H-bridges

6:30 PM

- Zach began talking about encoders vs. accelerometers
- Also brought up that he began creating a list of what to talk to the manufacturers about

Action Items

Danny retains responsibility of the build manual for our design.

Mitchell will be researching the details of a PLC and how that can be used in our project. He will also look into “ramp speed” and how it works.

Jacob will research the number of steps per rotation needed to give us a desired accuracy of 0.1 degrees.

Zack is going to look into the advantages and disadvantages of using an accelerometer vs. an encoder. If necessary he will reach out to suppliers to try and gain more information.