

Meeting minutes, Monday 03/15/2021, 2:20PM

Executive summary

Team completed NDA given from General Atomics. Travis is getting certified for the machine shop. Teammates deciding what topics each member will take for the individual analytical analysis. Preparing for presentation 3 which is due Sunday, which requires a physical prototype. Discussed how the CAD package and prototype will be created.

Announcements

Report due Friday March 19th

Presentation 3 due Sunday March 21st

NDA must be completed and sent by today.

Individual progress

Travis working on getting machine shop certified.

Travis has been working on general CAD package.

Report

Report finalizes what topics students take for the Individual Analytical Analysis

Scott: motor analysis

Sean: lead screw

Travis: Rack and pinion with worm gear

Connor: Location of center of gravity

Presentation 3

Prototype required: 3D printed manual adjustment model due before we present.

Failure modes: identify potential failure modes of design and how we can overcome and test these

Tolerance of collocation of COG and COR

General

Potential problems from belt design discussed.

Decrease number of parts (gear locking)

Self-locking aspect of balancing method discussed (worm gears)

t (ideal solution