

STAFF MEETING MINUTES

10/30/2017

Executive Summary

Team 03 gives a progress report of their recent meeting with Jeff Peebles of MWI Labs, and discuss their plans for the final proposal and the entire project itself going forward.

6:00 pm – Discussion RE: Team 03 Capstone Website

Jacob Head explains that the website is undergoing some technical difficulties with broken directory links. NAU's IT department has yet to determine a solution, though they are in the process of doing so. In the meantime, Jacob has resolved to debug the problem on his own with research into FTP in the hopes of resolving the issue.

6:04 pm – Stepper Motor & Budget

Team 03 shows Dr. Trevas the Schneider Electric stepper motor driver that Jeff Peebles has provided for the purposes of coding. Dr. Trevas has instructed Mitchell to search for M-2222-3.0ED500 for further research. Mitchell is currently familiarizing himself with Arduino code to create a program for driving the provided stepper motor. A power supply will also need to be secured, as well. Mitchell has also been creating a budgetary table for Jeff Peebles, to be updated with most recent gas receipts, as well as any equipment purchased.

6:11 pm – Progress regarding meeting with Jeff Peebles

Zack McCormick and Danny Matthews advise Dr. Trevas on matters brought up with Team03's previous meeting with Jeff Peebles the preceding Friday, October 27. Topics discussed: modified Truss analysis, both for force and stiffness, will need to be performed to create results accurate to current design and to draw out desired measurements for preliminary design; original design brought forth to Mr. Peebles which forgoes a cantilever system was shot down due to constraint of analyzing materials larger than the table; possible design change using stronger steel to curb deflection in arms; stated that accelerometer could be used for tracking of arms in rear of device; 0.1 mm resolution 3D print 1/10 scale model for prototyping suggested.

6:26 pm – Marching Orders

Final proposal is essentially a complete rundown of the current plan for moving forward based on current understanding of design (ideally, have model or detailed drawings to present as well).