



NASA Psyche Mission: Sampling System Team

Meeting Agenda

Start Meeting	Tuesday, February 18 2020 3:35 PM 98C Attendees: <ul style="list-style-type: none">• A. Acosta• S. Almarzouqi• S. Armstrong• K Barroso• S. Sprauer
Upcoming Assignments	Actions/Notes: <ul style="list-style-type: none">• Building Base (with tetrax)• Finalize relay arduino code for drill motors

Notes:

Worked on building base using the tetrax (Sultan, Sam & Andrew)

- Need:
 - More Pieces
 - Connection to electromagnet
 - Andrew got a quote from K & M Machine - Talking to sultan and owner to get a PO created.

Arduino Coding

- Finalized code to get Arduino working with drill motors to get them moving
- Need
 - Relay Code
 - Magnet
- Found a dual h-bridge motor driver - will be using to control main drill and linear actuator

Action List

Sultan

- Pick up order
- Meet with base set up team
- Finalize order w/ K & M

Andrew

- Finalize order w/ K & M
- Acquire wiring for electromagnet
- Meet with base set up team

Sam

- Meet with base set up team

Karissa

- Arduino Club (wednesday)
 - Help Scott w code
 - Putting together the arduino setup
 - Relay Code needed
 - Bring Magnet

Scott

- Creating Code & programming for functions of the drill
 - Relay Code
 - Code for magnet that senses changes in speed

DISCLAIMER

This work was created in partial fulfillment of Northern Arizona University's Capstone Course "ME 486C". The work is a result of the Psyche Student Collaborations component of NASA's Psyche Mission (<https://psyche.asu.edu>). "Psyche: A Journey to a Metal World" [Contract number NNM16AA09C] is part of the NASA Discovery Program mission to solar system targets. Trade names and trademarks of ASU and NASA are used in this work for identification only. Their usage does not constitute an official endorsement, either expressed or implied, by Arizona State University or National Aeronautics and Space Administration. The content is solely the responsibility of the authors and does not necessarily represent the official views of ASU or NASA.