

Meeting Minutes

Leader: Elizabeth

Note Taker: Tim

1. Review status of parts ordered: All
 - a. Received solenoid, McMaster-Carr order.
 - b. Still waiting on SDP-SI order.
2. Power and XY Plotter: Tim and Elizabeth
 - a. Update: last week's action items
 - Parts ordered for powering both sides of long axis
 - Started low-level design documentation
 - b. Questions/concerns?
 - How should we run wires to the moving motor.
 - Plastic pieces, discussion with MechEs.
 - c. This week's action items
 - Begin experimenting with solenoid and pen-lifting mechanism.
3. Microcontroller and User Interface: Sarah and Kelsey
 - a. Microcontroller blown.
 - Switching to FET as opposed to BJT.
 - Remember to add pull down resistor on the gate.
 - New microcontroller-board placed into the cart.
 - b. Update: last week's action items
 - UI Mockup Schematic-Board design
 - Difference between SOD-123 and SOD-123FL?
 - Pad spacing is only thing that matters when designing.
 - Minimum width for traces is, tentatively, 15mills.
 - Obtaining Microcontroller?
 - Need to order samples from Microcontroller.
 - PFET vs NFET
 - Double Check the math for PFET, might not be necessary.
 - NFET has greater mobility, allowing for better Rds on.
 - Will have to change our design to allow for a NFET.
 - a. Software changes should fix the issue.
 - c. Questions/concerns
 - d. This week's action items
 - Keep working on board design

4. Other questions/concern: All

a. Website server down

- Recovered the old website from pre-power surge.
- Will be moved to new server.