

## Meeting Minutes

Leader: Tim

Note Taker: Sarah

### 1. Power and XY Plotter: Tim and Elizabeth

#### a. Update: last week's action items

- Parts Received – have everything we need to move forward
- Status of the plotter and frame
- Continued low level design documentation.

#### b. Questions/concerns?

- Low-Level design documentation detail required?
  - Very detailed - Complete schematics, software decision, why we made certain choices
  - Do not need pitch of screws, thread, etc.
- Running wires to solenoid?

#### c. This week's action items

- Install shaft for powering both sides.
- Mount short-axis motor and carriage.
- Begin experimenting with pen lifting methods: next big challenge
- Test power supply. Professor Schafer has ordered some 12V lead acid batteries with enough current
  - Make sure use capacitors with voltage regulators. Have already placed on board design. Need to check capacitor values.

### 2. Microcontroller and User Interface: Sarah and Kelsey

#### a. Update: last week's action items

- Status of the Board
  - Have list of changes to make to board over coming weeks
  - Have all of essential components routed
- Status of the Code
  - Solenoid code working. Switched from BJTs to n-MOS

#### b. Questions/concerns

- Ordering samples of microcontroller: can send it to group member instead of Professor Schafer. Each member can order two sample orders every ~30 days
- Get 3 of each: 795 and 695

#### c. This week's action items

- Keep working on board design: run through DFM first. Professor Schafer will need libraries created, schematic, and board
  - Print board file to scale and set parts on it
3. Other questions/concern: All
- a. Should test entire system together before submitting board design
  - b. Website down again. Should be fixed shortly.