

Meeting Minutes

Leader: Sarah

Note Taker: Kelsey

1. Power and XY Plotter: Tim and Elizabeth
 - a. Update: last week's action items
 - Power circuit passed basic testing –nothing blew up yet
 - Dual-drive system working - two axes moving with double sided power
 - b. Questions/concerns?
 - c. This week's action items
 - Pen-lifting mechanism using solenoid: mounting and wire management
 - Design that might work; pivot pen instead of lifting straight up
2. Microcontroller and User Interface: Sarah and Kelsey
 - a. Update: last week's action items
 - Continued working on low level design documentation
 - Updated board design
 - Critiques:
 - a. Turn off power to 12V not just 3V3
 - b. Rearrange board – put power closer to motor controller
 1. Thick traces to connector/short for 12V/6V coming from motor controller; make controller vertical
 - c. 5 pin connector for joystick
 - d. LED arrangement “janky” – redo arrangement
 - e. NMOS – short should be ground; solenoid (need to put resistor to ground on top instead)
 - f. 10K for pull up resistors
 - g. Find specific diode we want to use
 - h. Power feed vary in size – make it more uniform
 - Ordered samples of microcontroller
 - b. Questions/concerns
 - How to cut holes in box
 - Use a punch
 - Are there any screws in stock (#4, 0.25” long)?
 - Should be some in stock
 - c. This week's action items
 - Send board design out – get done as soon as possible
 - Update UI design and order remaining parts for UI