

## Detailed Design Review debrief

### Motion control

- Look into lubricants for the x-axis, or using wheels instead
- When it comes to breakdown, should be pretty straight forward
- Make slides – to be given a higher hardness and can self lubricate, hard coat them and use sliders

### Enclosure

- UV protection for the top, possibly ply wood with hinge
- Double check the enclosure for the sides is UV protected
- Put a hole in the side for the wires and vacuums
- Try not to have a flat top
- Also look into cool lighting to increase “sexiness”

### Extruder tool

Include correct image

Change to U groove for the mount for the spool instead of a hole

### Material Bed

Three level screws, not four

### Rotary Tool

Use one plate on the back, not two separate, but might cause issues but we will see.

### Motors

Cormier thought there were encoders for motors in the inventory

### **BOM**

#### X-Y motion

Look into English units, might find cheaper materials

#### Motor

Curious to why we were using two motors on the y axis, but we need one for each side of the axis

### Risk Assessment

Lead time is too long

Part does not arrive

Wrong part arrives

Motor controller burns

-Have a person make the checklist of what comes in and what we are still waiting on

### Project Plan

Work with Kaemmerlan to talk about manufacturing scheduling and the phase subsystem

.