

Senior Project - Informal Minutes

10/01/2012

Advances

- Budget
 - PBS buffer
 - Ethanol – 50mL
 - Culture medium
 - Lead screw – 18 in → \$ 50
 - ABS or Delrin - for the non-structural components (weight is not an issue)
 - Lighter to use ABS
 - Cheaper to use ABS
 - Use as much ABS in the project and Delrin for small pieces.
- Stepper motor control
 - G code -
 - Lead screw w.o fine resolution
 - Arduino CNC shield
 - Stratasys
- Uv Light – Possible variables
 - Length of exposure
 - Distance of light
 - Wavelength
- Spatial brainstorming
 - 1. Extrusion
 - 2. Sterilization
 - 3. Deposition
 - 1 → 2 → 3
 - 1,3 ↔ 2
 - 1 → 2,3

Goals

- Hayin:
 - Research stepper motor control
 - Interaction with lead screws and
 - G-code
 - Arduino CNC Shield
- Dana
 - Find extruder
- From Hall
 - 10 Petri dishes

- Gloves
- 5mL syringe