

MEMORANDUM

TO: Biodesign Instructors

FROM: Green Crew (Ryan Brody, Anthony Caffaro, Robin Cross, Aimee Lam, Ava Mistry, Patrick Stevenson, Rachelle Walter)

DATE: April 7th, 2016

SUBJECT: Milestones 4, 5, and 6

As of April 7th, 2016, Green Crew has completed milestones 4, 5 and 6 of the 3D bioprinter. Building instructions for each milestone are attached. Each part has either a drawing (if not commercially available or changed) or a data sheet (if part commercially available).

One of the hardware containers (with screws, nuts, etc.) did not come with details about what size each piece was, and there were no instructions for which screws went where which made it more difficult to build the plate than we thought. The initial screws put on the bioprinter did not fit correctly and we had to go back and change the screws.

One of the wiring harnesses had the wrong size wire. One wire was too thick, so we had to re-solder the temp sensors because we did not realize the wire was too thick until after the initial soldering. Also, we had to put the male end onto the wiring harnesses to keep the female attached to the power source for safety.

The black plastic railing had to be cut in half because it was too long, but did not cut very clean and had to be done with more care and the end needed to be sanded down.

Not all the parts for this milestone are numbered, because we are waiting until we can get the BOM synced up to the manufacturer part numbers for the final submission.

Overall, the crew had better communication and had less problems than we did for the first few milestones, so that was a plus. Due to our excellent teamwork, we did not feel like we should write separate memorandums per team and instead decided to write one memo for the entire crew.

Sincerely,
Green Crew