

Team: P20652 Engineer: Chad tenPas

What were the outcomes of the prior phase?

1. What did I plan to do?

- a. Determine a Y axis printer model with Nick. (1-3 hrs)
- b. Determine mounting for extruder to printer with Nick. (1-3hrs)
- c. Perform tipping analysis on final structure in SOLIDWORKS - should be intermediate or lower quality with Nick and Amiee (1-3hr)
- d. Work on BOM as we continue with entire team. (1-2hr)
- e. Consider extruder to motor mounting with Joe, Alex, and Nick (1-3hr)

2. What did I actually do?

- a. determined y and z axis model
- b. new mounting solution for extruder
- c. no tipping analysis required. design changes moots it.
- d. updated BOM as required
- e. we figured out an extruder to motor solution, motor mounts for all the axis
- f. ordered y axis parts, fabricated parts and assembled for preliminary print tests
- g. reviewed BOM for ordering Z-axis

3. What did I learn? How was the plan and reality different?

We had a very successful phase. Plan was different from reality only in that we accomplished much more than what was planned

Team level goal for next phase

Build, test and document Z axis of printer. Finish testing and print a 3D object!

What do I plan on doing to ensure that my team has a successful review at the end of the next phase?

1. Each team member should estimate 5-10 specific tasks that he or she will complete.

- a. Polish off the 3D model with Nick. (3-6 hrs)
- b. Assemble Z-axis with Mechanical team and team (1-3hrs)
- c. Polish off the BOM with team- dependent on "step a." (3-6hr)
- d. Perform Tests for printer "process" parameters with Mechanical team(4-8hr)

1. When will each task take place? Does sequencing matter?

IDEAL: (a,b,d) →(c,d)

1. Estimate the amount of time each task will take – ensure that you are not committing yourself to do 80 hours of critical-path work alone during the next three weeks.

- a. 3-6 hr
- b. 1-3 hr
- c. 3-6 hr
- d. 4-8 hr

1. How do other team member tasks impact my task completion, and vice-versa?

- a. Nick, Amiee, Alex K.
- b. Nick, Amiee, team
- c. the team and myself
- d. Team

What is standing in my way of meeting my next phase goals?

parts coming in on time. fabrication process might be longer than anticipated.