Kashish Garg
Team D1

What did you personally accomplish this week on the project?

- More reliable communication between Raspi and Arduino
    - Queuing issue fixed by adding some sleeps between commands, and waiting for Arduino to send an initial message when it is first connected. This makes sure that the Arduino is all set up and ready to receive commands. Once the Arduino is ready, the raspi code just send the commands once, and the robot motors remains in that state until another command is sent.
- Worked on the final presentation (testing and timing metrics)
- Worked on the poster (overview and system architecture)
- Added pre-recorded voice commands to the code, so that the robot warns the users when it waits for them to take food, and when it begins to move to the next person
- Modified the ultrasonic sensors code to check the side sensors only if the middle sensor doesn't detect an object.
    - This makes our object detection module a little bit faster, so we can stop in time.
- Ran tests for the overall integrated system
    - Calibrated the side ultrasonic sensor thresholds
    - Load cell tests mentioned in presentation were completed

Schedule

Test and calibrate the robot (and record a video as contingency) on gym (or gym-like) flooring and environment tomorrow in order to prep for demo

What deliverables do you hope to complete in the next week?

- Demo on Monday
- Final Report on Wednesday