

Week 11 Status Update

Team D1 – Isabel Murdock

Work Accomplished:

- Debugged communication issue between the Arduino and raspberry pi and solved it by introducing a wait in the Arduino code
 - o The wait before sending the serial message to the pi ensures that the pi is able to get setup and ready to receive communication before the message is sent
 - o This fix allowed us to only send single commands between the pi and Arduino and still be confident that both sides would get the desired command
 - o This also meant that we did not have the queuing issue anymore
- Secured plaid cloth skirt to robot base and top shelf with Velcro
- Updated and reorganized team schedule/timeline
- Worked on final presentation slides
- Completed Overview and Approach components for the demo poster
- Calibrated stopping times and changes in velocity to limit oscillation of the robot upon decelerating
 - o While there is still some slight oscillation, it should not be enough to cause robust appetizers/desserts from being shaken off the tray
- Assisted with tests of the overall system including the ultrasonic sensors

Schedule:

- For tomorrow:
 - o Need to cut out pieces of cardboard or wood for the users to hold
 - o Make brownies for the demo
 - o See if we can test in the gym and/or record the robot in action
- For Wednesday:
 - o Complete the final paper

Upcoming Deliverables:

- Demo on Monday
- Final paper on Wednesday