

Week 8 Status Update

Team D1 – Isabel Murdock

Work Accomplished:

- Prepared motor control code for integration with raspberry pi
 - o Wrote functions for driving straight, coming to a stop, turning, and immediately stopping
 - o Function for driving forward slowly ramps up speed to minimize oscillation
 - o Function for slowing down takes into account the current speed of the robot and slowly decreases speed
 - o Function for immediately stopping takes the hit in oscillation but aims to stop the robot as safely and quickly as possible
 - o These functions were written and tested in order to speed up the process of integrating the sensor and decision-making algorithm on the raspberry pi with the control of the motors on the Arduino

- Due to the fact that Kashish was sick early this week and I was busy with other work towards the end of the week, I did not accomplish as much as I had hoped to this week

Schedule:

- Behind schedule in integrating Arduino with raspberry pi, need to do this ASAP

Upcoming Deliverables:

- Communication from Arduino to raspberry pi
- Integration with the sensor program
- Physical mechanism that allows the height of the tennis ball supports to be adjusted