Object Recognition and Path Smoothing Robot

Team: Ammon Dodson, Alex Marlow, Jake McKenzie

**SCHEDULE**

Completion dates of goals

This quarter, starting Oct 18th

Weekly reports – Oct 18th – Jun 7th (not including breaks)

Design Spec Revision V0.1 – Oct 18th

Roadmap & Schedule v0.1 – Oct 18th

Test Plan Revision v0.1 – Oct 25th

Design Spec revision v0.2 - Nov 1st

Test Plan Revision v0.2 – Nov 8th

Design Spec Revision v0.3 – Nov 15th

Test Plan Revision v0.3 – Nov 22nd

Design Spec revision v0.4 – Nov 29th

PoC Demo – Dec 6th

Test Plan Revision v0.4 – Dec 6th

Connecting a xbox controller to the robot - Dec 7th

Next quarter starting Jan 7th

1. Testing controller functionality.
2. Implement Dr. McCourt’s linear filter for mitigating delay control signals.
3. Getting sensors provided by Dr. McCourt to send and receive positioning data back and forth. Four sensors located in a room and one located on the Burgerbot.

Initial completion of these tasks by March 15th

Testing and bug fixing of the follow functions starting spring quarter, April 1st

1. Testing Dr. McCourt’s linear filter for mitigating delay control signals.
2. Testing sensors provided by Dr. McCourt to send and receive positioning data back and forth. Four sensors located in a room and one located on the Burgerbot.

Stretch goals

Optional completion date May 24th (implementation and testing)

1. Getting the webcam provided by Dr. McCourt to work with OpenCV and SLAM so that we can Implement real-time object detection.