<u>Are We There Yet: Sprint 6 Postmortem</u>

Planning Meeting

During the planning meeting, we constructed a backlog based upon what task each group member would be working on.

Task	Owner
Diagrams and other required materials for the SDS	Brian P.
Budget Parts and movement	Alex
Test Plan along with line following and strafing	Michael
Interfaces and Rubik's Cube challenge	Brian S.

- We discussed a new schedule so we will fulfill all of the tasks need to complete the SDS and prepare for the final design presentation.

Stand up logs

Date	Meeting Highlights
11/18	<table><tr><td>Item</td><td>Due Date</td><td>Owner</td></tr><tr><td>Line Following Movement</td><td>11/24</td><td>Alex, Michael</td></tr><tr><td>Alignment to Challenge</td><td>11/25</td><td>Alex, Michael</td></tr><tr><td>Rubik's Cube Challenge</td><td>11/25</td><td>Brian S</td></tr><tr><td>SRS Level 2</td><td>11/25</td><td>All</td></tr><tr><td>Move to and Complete Challenge</td><td>12/2</td><td>Alex, Michael</td></tr><tr><td>SDS</td><td>12/4</td><td>ALL</td></tr></table>
11/19	New: • Michael: parts have been order should be in on the 20th, working with alex for the movement • Alex: line following code works with dc motors • Brian S: working on design for the Rubik's cube arm • Brian P. : working on the level 2 SRS For next meeting: • Brian P. : have a majority of the SRS done • Alex : have the basic movements done • Michael: have the motor shields up and running • Brian S: Rubik's cube arm built
11/22	New: • Michael: motor shields have been arrived • Alex: set up the stepper motors • Brian S: solder the motor shields, Rubik's cube • Brian P. :working converting pixels to inches for alignment Issues: • Alex: Line sensor array is broken For next meeting: • Brian P. : have the SDS started • Alex : line following • Michael: movement remapped, strafing for • Brian S: started work on the SDS

12/1	New:
	- Michael: Started the test plan - Alex: Line sensor array has arrived, working with Michael on the test plan - Brian S: working on interface section - Brian P. :working on function diagram For next meeting: - Brian P. : function diagrams complete - Alex : finish helping with the test plan - Michael: More work on the test plan done - Brian S: interfaces mostly complete
12/2	New:
	- Michael: Test cases are almost done need to do some formatting for them - Alex: working of the budget part list - Brian S: still working on the interface section - Brian P. : has 2 of the 4 function diagrams complete For next meeting: - Brian P. : have the function diagrams complete - Alex : have the budget section complete - Michael: Test plan finish - Brian S: have most of the interface section complete
12/3	New:
	- Michael: Test Plan taking a little longer due to formatting issues from excel to word - Alex: Budget section is almost done - Brian S: has a majority of the interface diagrams done - Brian P. : function diagrams done and working on formatting the SDS For next meeting: - Brian P. : Have the design document almost done - Alex : Budget test complete - Michael: Test plan complete - Brian S: Interface complete

What Went Well

During this sprint, we were able to still stay focus on working together even though we left for break to spend time with our families. This allowed us to stay ahead of the work load making the days following after the break less stressful with the SDS due.

Building a new flowchart for items that need to be complete helped us keep on track with our objects for this sprint. This gave us some good goals to accomplish, which helped us make

key decisions on how to complete certain tasks within a given amount of time.

What Could Use Improvement

For next semester something that could use improvement is our ability to take care of things. We end up breaking a lot of the components on Roadie which lead us to fall behind in our prototyping from reversing the polarity to applying pressure on parts that break easily. This meant we had to spend extra money on Roadie and more time fixing the parts we broke.

Furthermore, next semester we need to work on better management with our time spent in the lab. While we are at the lab, we find that we become easily distracted. As such we have to spend more time at the lab because our work has not been finished yet.

Our Commitments This Next Semester

During this next sprint, we need to come back as strong as we are leaving as this semester so we can accomplish our set goals, finishing the year with a product that we can be proud of. We realize that this break does help us by allowing us to have a break from all the work that we have been doing so when we get back from it we can hit the ground running and accomplish all of our goals we have set for next semester.

Furthermore, even though we need to take a break from the project we need to make sure we keep in contact over the break so we know where we stand on the project and help us set up some goals to reach before returning from break to make next semester easier on us. This will provide us with a good foundation to build upon next semester, allowing us to accomplish more next semester than we did this semester.

Retrospective

Spring 6 was one of the longer sprints, but even though it was a longer sprint it was filled with some of the major documents for this semester. We realize that even if this was one of the long sprints does not give us the right to wait to do the work that is needed to get done for the this sprint. From this we were able to say focused and work throughout the sprint to complete our goals.