

Period One - Project Plan

Goals and Tasks for Botball 2019:

Game Goals and Tasks		<i>Deadlines:</i>
	1. Review the game rules movie and game documents	1/11/19
	a. Have projector and screen ready to show movie	1/11/19
	b. Copy game rules and distribute to team member for review	1/11/19
	2. Brainstorm Strategies	1/18/19
	a. Discuss game strategies and record them on dry erase board	1/18/19
	b. Team captain will lead discussion on options	1/18/19
	3. Build Practice Board	1/14/19
	a. Build team will assemble list of supplies for teacher to purchase at Lowes and Home Depot	12/14/18
	b. Team leader and other members will help team assemble game board in the classroom	1/14/19

Robot Building Goals and Tasks		<i>Deadlines:</i>
	1. Prototype the Create and LEGO Robots	2/1/19
	a. Complete a labeled drawing of the concept for the Create robot based on the chosen strategy	2/1/19
	b. Complete a labeled drawing of the concept for the LEGO robot based on the chosen strategy	2/1/19
	2. Complete Construction of Create Robot	2/11/19
	a. Construct base mechanism and mount	2/4/19
	b. Construct claw mechanism	2/8/19
	c. Add color sensor	2/8/19

3. Complete Construction of LEGO Robot	2/11/19
a. Complete construction of chassis	2/4/19
b. Add caster ball for stabilization	2/4/19
c. Construct scooping mechanism	2/8/19

Programming Goals and Tasks		<i>Deadlines:</i>
	1. Run Test Programs	2/1/19
	a. Program basic movements using the workshop demobot	1/28/19
	b. Program precision turns using the workshop demobot	1/30/19
	c. Program each sensor using the workshop demobot	1/31/19
	2. Complete Program for Create Robot	2/15/19
	a. Write pseudocode with building team for Create robot	2/8/19
	b. Program claw movement	2/11/19
	c. Program color sensor	2/11/19
	e. Test all programming for Create robot with build team	2/13/19
	3. Complete Program for LEGO Robot	2/15/19
	a. Write pseudocode with building team for LEGO robot	2/8/19
	b. Program precision turns	2/11/19
	c. Program scooping movement	2/11/19
	e. Test all programming for LEGO robot with build team	2/15/19

Documentation Goals and Tasks		<i>Deadlines:</i>
	1. First Period Documentation Complete	1/30/19
	a. Class meeting to see the overall schedule, assign tasks and decide on conflict resolution	1/28/19
	b. Gather info from building and programming teams to establish goals and tasks for the season	1/28/19
	2. Second Period Documentation Complete	2/27/19
	a. Gather data from build team for assignment	2/8/19
	b. Gather data from programming team for assignment	2/15/19
	3. Third Period Documentation Complete	4/3/19
	a. Have a meeting to discuss how this year's team dynamic was and how everything came together	3/15/19
	b. Gather info from team members for lessons learned	3/29/19

Schedule Conflicts		<i>Deadlines:</i>
	1. Music For a Cause - One team member absent	every monday
	2. Tennis Tournaments - One team member absent	2/11/19, 2/20/19, 3/26/19
	3. Grandparents Day - No meeting	1/25/19
	4. Holiday - school closed - No meeting	1/21/19, 2/18/19, 2/19/19
	5. Spring Break - school closed - No meeting	2/18/19-2/22/19

Team Organization:

Schedule of Meeting Times:

Regional tournament - April 6th

Each meeting will run from 12pm-1:10pm

Schedule for January - 11th, 14th, 18th, 21st, 22nd, 28th, 29th

Schedule for February - 4th, 5th, 8th, 11th, 14th, 15th, 20th, 21st, 22nd, 28th

Schedule for March - 1st, 7th, 8th, 14th, 15th, 21st, 22nd, 25th, 26th, 27th, 28th, 29th

We were unable to go to the regional workshop due to travel costs since we live in Florida and are competing in the Greater DC/Virginia region.

Division of Labor:

Adult Team Leader: Lew Ritter

Robot Building Team for Create robot: Michael and Chris-John

Robot Building Team for LEGO robot: Jackson C and Jacob

Programmers for Create robot: Jameson and Stuart

Programmers for LEGO robot: Jameson and Julia

Documentation Team: Jessica and Jenny

The teams were decided by the students who voted and self-nominated themselves for their roles in the team. All team members are able to perform different tasks besides their designated team and help accordingly.

* Jessica and Jameson are the student team leaders.

Conflict Resolution:

The team has agreed that if disagreements occur we will handle them in the following way:

1. Team members who are in disagreement with each other will first attempt to solve their disagreement together. Team members agree to allow others to express their opinions and thoughts aloud one at a time and attempt to reach a resolution.
2. If a resolution cannot be reached, the team members will bring their conflict to the student team leaders, Jessica and Jameson.
3. If a resolution still has not been reached by that point (or if the disagreement involves the student leaders), the conflict will be brought to Lew Ritter, the adult team leader. Lew Ritter will either decide how to resolve the conflict or will bring up the conflict to the team for discussion and hold a team vote. The decision of the adult team leader and/or vote is final.