

Period 1-Project Plan

Goals and Tasks For Botball 2019

Game Goals and Tasks

1. Year Overview, 12/7/18
 - a. Teach new members basics of techniques and building robots, 10/26/18
 - b. Teach new members basics of coding, 11/16/18
2. Brainstorm Strategies, 1/26/19
 - a. Brainstorm ideas and develop a strategy, 1/25/19
 - b. Discuss ideas and come to a consensus, 1/26/19
3. Organize Parts, 1/25/19
 - a. Print list of parts to catalog and sort parts, 1/25/19
 - b. Organize parts into tool kit and bins, 1/25/19
4. Construct Game Board, 3/9/19
 - a. Build skyscrapers, 1/26/19
 - b. Organize PVC pipes, 3/1/19
 - c. Mark path on board, 3/2/19
5. Learn Game Rules, 2/15/19
 - a. Designate a team member to learn rules for future reference, 1/25/19
 - b. Read resources from team Homepage and denote important information, 2/15/19

Robot Building Goals and Tasks

1. Design and draw robot prototypes, 2/2/19
 - a. View different sketches on projector to formulate ideas, 2/2/19
 - b. Design arms and hood for Robot A robot, 2/2/19
 - c. Design arms for Robot B, 2/2/19
2. Finalize prototype for Robot A, 3/1/19
 - a. Build base of robot, 2/8/19
 - b. Build arm for Robot A that hits firefighters, 2/8/19
 - c. Build “roof” of hood system for Robot A that blocks other firefighters from moving, 2/9/19
3. Finalize prototype for Robot B, 2/15/19
 - a. Build first arm that picks up people, 2/1/19
 - b. Build second arm that picks up people, 2/2/19
 - c. Build pen that moves up and down and holds people, 2/8/19

Programming Goals and Tasks

1. Write pseudocode for both robots, 2/9/19
 - a. Approximate values to put in code, 2/9/19

- b. Comment in all actions of the robot, 2/9/19
2. Complete programming for Robot A and Robot B, 3/16/19
 - a. Complete programming for Robot A, 3/3/19
 - b. Test robots and determine actual values, 3/10/19
 - c. Adjust code values as needed with further testing, 3/16/19
3. Find the distances the robots will move on the board, 3/10/19
 - a. Calculate dimensions for test board, 3/3/19
 - b. Determine the pathway of both robots, 3/3/19

Documentation Goals and Tasks

1. Complete Period 1 (Project Plan) Documentation, 1/30/19
 - a. Organize division of labor, 1/26/19
 - b. Communicate with building and coding groups to find out goals, 1/26/19
2. Complete Period 2 (Mechanical Systems Design/Code Review) Documentation, 2/27/19
 - a. Take pictures of robots, 2/15/19
 - b. Discuss with coding group to understand code, 2/15/19
 - c. Meet with building group to understand the construction of robots, 2/15/19
3. Complete Period 3 (Lessons Learned) Documentation, 4/3/19
 - a. Distribute work among documentation members, 3/20/19
 - b. Send survey to team members about season experience, 3/20/19

Schedule Conflicts

1. Winter break and Grade-Level Exams: No school for two weeks and no meetings for one month, 12/21/2018 to 1/24/19
2. Swim Team ISLs, 1/25/19
3. Swim Team WMPSSDLs, 2/2/19
4. Swim Team METROS, 2/9/19
5. Model UN Conference: NAIMUN, 2/14/19 to 2/16/19
6. Winter Play: Performance Dates, 2/22/19 to 2/23/19
7. Coffeehouse: Performance Date, 3/16/19
8. Spring Break: no school for one week, 3/21/19 through 4/1/19

Team Organization

Schedule of Meetings

2018/2019 Calendar

October							November							December						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6				1	2	3								1
7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8
14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15
21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22
28	29	30	31				25	26	27	28	29	30		23	24	25	26	27	28	29
														30	31					

January						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

February						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28		

March						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

April						
S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

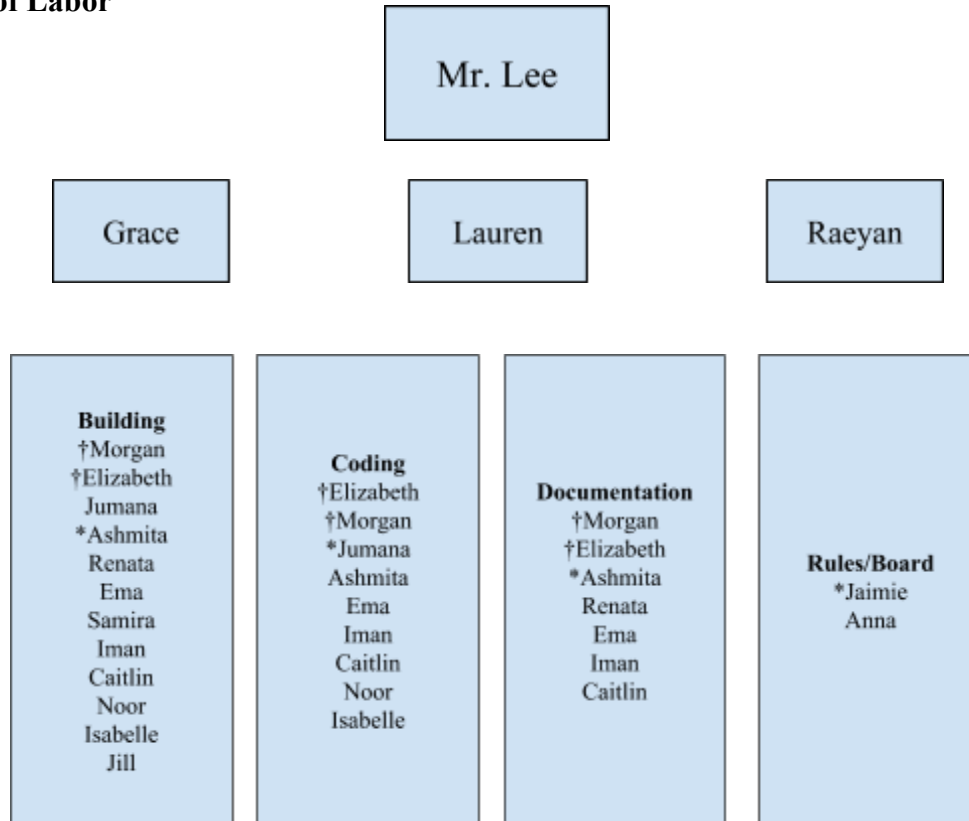
Key-

 - Meeting Dates

 - Documentation Deadlines

 -Botball!

Division of Labor



*Denotes group leaders

†Denotes team captains

Conflict Resolution:

The team has agreed that if an argument comes up, they will be handled with the following steps:

1. Team members who have a disagreement will endeavor to create a solution themselves without involving other members of the team.
2. If the team members cannot resolve the problem by talking amongst themselves, the team members involved in the conflict will discuss with the team captains, Elizabeth and Morgan.
3. If the team captains cannot resolve the problem, the team members involved and the team captains will go to the club executives: Grace, Lauren, and Raeyan.
4. If the club presidents cannot resolve the problem, all involved team members will take the disagreement to Mr. Lee, the club advisor. His resolution is absolute.
 - a. If the team members that are disagreeing are the presidents, then the problem will be taken to Mr. Lee immediately.