

Hawaii
Highlands Intermediate Robotics, 0045

Period One - Project Plan

Goals and Tasks for Botball 2019

Game Goals and Tasks:

Deadlines:

1. Review the Game Rules

1/31/19

- a. Print out the game rules and distribute it to each team member
- b. Review the game rules individually

1/30/19

1/31/19

2. Brainstorm our Game Plan

02/05/19

- a. Discuss 3 different game strategies for each robot and record them
- b. Select the most realistic game strategy

02/05/19

02/05/19

2. Construct the Game Field

02/16/19

- a. Gather all of the supplies needed for the the game field
- b. Cut PVC pipes
- c. Build the Game Field

02/09/19

02/09/19

02/16/19

Robot Building Goals & Tasks:

Deadlines:

1. Design the LEGO robot and Create

02/12/19

- a. Create a design for the LEGO robot and complete a labeled drawing
- b. Create a design for the Create and complete a labeled drawing

02/12/19

02/12/19

2. Construct the Create Robot

02/22/19

- a. Build the base
- b. Build the arm

02/16/19

02/22/19

3. Construct the LEGO Robot

03/02/19

- a. Build the chassi
- b. Build the arm and the roller intake

02/23/19

03/02/19

Programming Goals and Tasks:

Deadlines:

1. Run Test Programs

- a. Program the basic movements, including the turns
- b. Test the arm movements
- c. Program each sensor

03/12/19

03/05/19

03/08/19

03/12/19

2. Program the Create

- a. Program basic movement
- b. Program the arm
- c. Program the claw

03/12/19

03/02/19

03/08/19

03/12/19

3. Program the LEGO Robot

- a. Program basic movement
- b. Program the roller intake
- c. Program the sensors

03/23/19

03/15/19

03/19/19

03/23/19

4. Integrate Both Robots

- a. Run both robots at the same time
- b. Sync both robots by adjusting the programs

04/20/19

04/06/19

04/20/19

Documentation Goals and Tasks:

Deadlines:

1. Complete First Period Documentation

- a. Set up schedules and deadlines
- b. Create step by step plans
- c. Assign a role for each member

02/09/19

02/08/19

02/09/19

02/09/19

2. Complete Second Period Documentation

- a. Collect data of mechanical designs
- b. Collect data from program

03/09/19

03/05/19

03/09/19

3. Complete Third Period Documentation

- a. Have the team members take a survey
- b. Report about the things that we learned

04/06/19

04/05/19

04/06/19

Schedule Conflicts

1. Teachers Institute Day - No School
2. President's Day - No School
3. Spring Break - No School
4. Kuhio Day - No School
5. Vex World Championship
(a trip to Kentucky for a week)

Dates:

02/11/19
02/18/19
03/18/19 – 03/22/19
03/26/19
04/21/19 – 04/28/19

Team Organization

Schedule of Meeting Times:

Dates:

Regional Workshop (highlighted in yellow): 02/02/19 – 02/03/19
Regional Tournament (highlighted in purple): 05/04/19
(Days in green are Botball meeting days)

Regular Meeting Days :

- Tuesday : 2:10 pm - 4:30 pm
- Friday : 2:10 pm - 5:30 pm
- Saturday : 9:30 am - 12:00 pm

February

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	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				

May

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			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	

Division of Labor :

Advisor : Mrs. Okai

Student Team Leader : Cody

Builders : Cody, Ethan, Stephanie

Documenter : Stephanie, Cody, Ethan

Programmer for LEGO Robot : Stephanie

Programmer for Create : Cody

Conflict Resolution :

We have agreed that when disagreements or problems occur, we will handle them in the following way:

1. The problem will be discussed together as a team with some possible ideas to solve the problem. Together, we will discuss the pros and cons of each idea and seek a resolution that each team member can agree upon.
2. If we are not able to come up with a resolution, the problem will be brought to the team leader, Cody.
3. If we still can't get to an agreement, the argument will be brought to the advisor, Mrs. Okai. From there, it will be decided if the team should vote upon an idea or if another solution could be chosen.