

## **Period One - Project Plan**

### Goals and Tasks for Botball 2019

#### **Game Goals and Tasks**

	<b>Deadlines</b>
1. Review game rules, game board, and game points	1/31/19
a. Project onto T.V and talk about the rules as a group discussion	1/29/19
b. Have copies of the game points and game board to give to members	1/29/19
2. Come up with strategies for the game	2/7/19
a. Make a document with members strategies	2/5/19
b. Talk about which strategies would do best and score points	2/7/19
c. Vote for which plan we will go for	2/7/19
3. Build the game board	2/23/19
a. Engineering team will build the board	2/23/19

#### **Robot Building Goals and Tasks**

	<b>Deadlines</b>
1. Come up with a design for Create and Demo Bots	3/7/19
a. Draw out the design for both robots	2/28/19
b. Prototype the design for both robots	3/7/19
2. Build onto Create Robot	3/14/19
a. Build a scooping bin that dumps too	3/14/19
3. Build onto Demo Robot	3/21/19
a. Build a mechanism that will grab onto objects and hold	3/21/19
b. Build camera senses	3/21/19

#### **Programming Goals and Tasks**

	<b>Deadlines</b>
1. Run test programs	3/7/19
a. Run moving forward	3/7/19
b. Run a detecting camera code	3/7/19
c. Run following a line	3/7/19
d. Run spinning in a circle	3/7/19
2. Program Create Robot	3/21/19
a. Pseudocode for the plan	3/14/19
b. Program for scooping and dropping	3/21/19
c. Test code for create bot	3/21/19
3. Program Demo Robot	4/4/19
a. Pseudocode for the plan	3/28/19

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|-----------------------------|--------|
| b. Program object grabbing  | 4/4/19 |
| c. Program camera detecting | 4/4/19 |
| d. Test code for demo bot   | 4/4/19 |

### **Documentation Goals and Tasks**

### **Deadlines**

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|---|---------|
| 1. First Period Documentation                                 | 2/8/19  |
| a. Set schedule for meetings and building                     | 2/8/19  |
| b. Have a idea of our plans and what to do for coding         | 2/8/19  |
| 2. Second Period Documentation                                | 3/13/19 |
| a. Gather data from the engineering team                      | 3/13/19 |
| b. Gather data from the programming team                      | 3/13/19 |
| 3. Third Period Documentation                                 | 4/24/19 |
| a. Gather information from the member and see what we learned | 4/24/19 |
| b. What should we do different or same for next year?         | 4/24/19 |

### **Schedule Conflicts**

### **Deadlines**

- |   |         |
|---|---------|
| 1. February Vacation - some team members won't attend | 2/22/19 |
| 2. April Vacation - some team members won't attend    | 4/19/19 |
| 3. Tuesdays - Teacher has classes to take             | N/A     |

## **Team Organization**

### **Schedule of Meeting Times:**

Regional Workshop - January 25th and 26th

Regional Tournament - April 27th

*Each meeting is at the times of 3pm - 4:30pm*

Schedule for January - 28th, 31st

Schedule for February - 7th, 14th, 20th, 21st, 23rd, 28th

Schedule for March - 7th, 14th, 21st, 28th

Schedule for April- 4th, 11th, 25th

### **Division of Labor:**

Adult Team Leader: Chris Meehan

Robot Building Team for Create Robot: Jacob and Kiaraliz

Robot Building Team for Demo Robot: Jacob and Kiaraliz

Programmers for Create Robot: Jennifer and Sebastian  
Programmers for Demo Robot: Sebastian and Jennifer  
Documentation Team: Jennifer, Sebastian, and Jacob

\*Jennifer is our Student team leader

### **Conflict Resolution:**

If disagreements in any chance happens the team agreed that:

1. Every team member is entitled to their own opinion and members will be accepting of that.
2. If team members is at a disagreement they will first work it out between them two and come to a solution.
3. When a disagreement cannot be fixed going to the Student lead Jennifer is best fit to help solve the problem.
4. If no solution is brought up or if it gets worst we are to bring it to the adult leader Chris Meehan.