

Team Name: Oort Cloud

Team Number: 18-0653

Region: Oklahoma

## Period 1: Project Plan

### Goals and Tasks for Botball 2019

#### Game Goals and Tasks:

Task	Deadline
1. Make sure that everyone has access to the game rules and Botball Workshop files <ol style="list-style-type: none"><li>Attend the Botball Workshop</li><li>Send out an e-mail with all the files attached</li><li>Have a meeting with a laptop that has each of the files, and from which the game video can be shown</li></ol>	1/20/19
2. Brainstorm <ol style="list-style-type: none"><li>Make sure some people have gone to the second day of the workshop to take notes</li><li>Distribute notes with rest of team</li><li>Talk about the game</li></ol>	1/20/19
3. Build Practice Board <ol style="list-style-type: none"><li>Make a list of what is needed</li><li>Designate some shoppers and give them the list of items</li><li>Possibly have some students pitch in money so that the financial load can be spread out among the members of the team</li><li>Find time throughout the week, or designate a weekend, to build the Practice Board</li></ol>	2/10/19

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

<b>Task</b>	<b>Deadline</b>
1. Build Lego Prototype a. This will most likely begin at the Botball Workshop and a basic prototype will be completed for the programmers to test out sensors b. Make sure correct sensors are on robot	1/13/19
2. Build Create Prototype a. Add an arm mechanism b. Add some kind of grabby hand c. Also add sensors that programmers need	2/17/19
3. Complete final adaptation of both a. Make sure that each robot has the required mechanics b. Make sure that every part is stable	3/1/19

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

<b>Task</b>	<b>Deadline</b>
1. Get Basic Understanding of programming a. Acquire “Cheat Sheet” from Botball Workshop b. Use Lego Prototype to make code with “top hat” sensor to follow lines consistently	1/13/19
2. Try to get the Camera to work a. Look online for help b. Contact past OSSM Botball members for help	2/20/19
3. Complete Code for Lego Robot a. Have line follow completed b. Have code for touch sensor completed c. Have code for movement completed	3/1/19
4. Complete Code for Create a. Have code implemented into Create b. Have code for arm completed c. Have code for grabby hand completed	3/1/19

### Documentation Goals and Tasks:

Task	Deadline
1. Complete First Period Documentation a. Organize a good date for the picture, probably during/after study time so that our adult team leader can also get in b. Find out what each team is trying to do for the season	1/28/19
2. Complete Second Period Documentation a. Make sure Programming team has a Github and uses it b. Make sure Build team has been taking notes and writing down what they worked on	2/20/19
3. Complete Third Period Documentation a. Send out an Office 365 Form that asks everyone if they learned anything, and what they learned throughout the year b. Compile data into an excel spreadsheet for easier consumption	3/6/19

### Team Organization:

#### *Schedule of Meeting Times:*

Regional Workshop – January 12 & 13

Regional Tournament – March

*Each meeting will run from 10-10:30 on Mondays, and each member of the team will log their own work times for each week*

### Division of Labor:

Adult Team Leader: Dr. Clint Givens

Robot Build Team Captain: Jack McKay

Programming Team Captain: Jason Wu

Notebook Team Captain: Hayden Doty