### Oklahoma Region - Southeast 0197

# Period One - Project Plan

# Goals and Tasks for Botball 2019

### Game Goals and Tasks

1. Rev	iew Game Documents	1/14/19			
	a. Make a copy of all the necessary documents for every member of the team.	1/14/19			
	p. Review the game documents.	1/14/19			
		1/14/13			
2. Crea	ate Strategies for the Game	1/15/19			
	a. Have each member create a strategy and present it with a flow chart.	1/16/19			
	b. Have meeting to discuss the strategies and agree on one or compromise.	1/16/19			
		1/10/19			
3. Buil	d Game Board	1/22/19			
;	a. Acquire all materials necessary to build game board.	1/22/19			
	b. Assemble game board.	1/10/19			
		1/22/19			
Robot Building Goals and Tasks					
1. Disc	uss Prototype Robots	1/14/19			
	a. Decide which robots will be used.	1/14/19			
	b. List which mechanisms robot requires in order to succeed with game strategy.	1/14/19			
2. Buil	d Moving Prototypes	1/25/19			
;	a. Build effector arm required for Create's strategy.	1/25/19			
	<ol> <li>Build effector claw required for Lego Bot's strategy.</li> </ol>	1/25/19			
3. Add	Sensors	1/22/19			
:	a. Add tophat, light, and camera sensors to Create.	1/22/19			
	<ol> <li>Add tophat, lever, and light sensor to Legobot.</li> </ol>	1/22/19			

## **Programming Goals and Tasks**

1.	Enable	e Basic Movements	1/25/19
	a.	Program Create to maneuver gameboard.	1/25/19
	b.	Program Legobot to maneuver gameboard.	1/25/19
2.	Establ	lish Use of Sensors	1/28/19
	a.	Allow both robots to start on light detection.	1/28/19
		Allow both sensors to line follow.	1/28/19
	c.	Use camera sensor on Create to detect and approach colored objects.	1/28/19
3.	Score	Points	1/29/19
	a.	Combine use of movement and sensors to score points with the Create.	1/29/19
	b.	Combine use of movement and sensors to allow the Legobot to not interfere with	1/29/19
		the Create while still scoring points.	

### **Documentation Goals and Tasks**

1.	Comp	ete Period 1 Documentation	1/28/19
	a.	Gather knowledge on both robots goals and strategies to enable documentation	1/24/19
		progress.	1/23/19
	b.	Documentation team begins work on period 1.	1/28/19
	C.	Documentation team finishes period 1.	1/20/10
0		late Deviad 2 Decumentation	
2.	•	ete Period 2 Documentation	2/20/19
	а.	Gather knowledge of programming and mechanical specifics to begin	1/24/19
		documentation progress.	2/13/19
	b.	Documentation team begins work on period 2.	2/20/19
	C.	Documentation team finishes period 2.	2/20/10
3.	Comp	ete Period 3 Documentation	0/0/40
	a	Team meeting to discuss reflections, lessons learned, and assisting ideas for	3/6/19
	u.		3/4/19
		documentation.	3/6/19
	b.	Use information from discussion to complete period 3.	

### Schedule Conflicts

- a. January 18 Pep Rally Students absent for school assembly.
- b. January 21 Martin Luther King Jr. Day No school.
- c. January 25 All City Band Certain team members absent for band concert.

# **Team Organization**

#### **Schedule for Meeting Times:**

Regional Workshop - January 12th and 13th Regional Tournament - March 9th

Each meeting will run from 9:25 am - 10:15 am

Schedule for January- 14, 15, 16, 17, 18, 22, 23, 24, 28, 29, 30, 31 Schedule for February - 1, 2, 4, 5, 6, 7, 12, 13, 14, 15, 18, 19,20, 21, 22, 25, 26, 27, 28 Schedule for March - 1, 4, 5, 6, 7, 8

#### **Division of Labor**

Billy Johnson - Adult Sponsor Brayan Martinez (Team Leader) - Create Leader Gilberto Diaz - Create Assistant Daylyn Isaacs - Demobot Leader Eduardo Arevalo - Demobot Assistant All members will work on the documentation cohesively.

#### **Team Resolutions**

- 1. Team members who have a disagreement will first have to resolve it or try to find a resolution on their own accounts. Showing respect in others ideas and opinions is a requirement.
- 2. If no resolution is found they will seek advice from the Team Leader.
- 3. Final attempt for resolution shall be to go to Team Adult Sponsor and he shall have the final word on the argument.