

Oklahoma

## Goals and Tasks for Botball 2019

Martin Family Team # 0727

### Game Goals and Tasks

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|---|---------|
| 1. Build game board   | 1/30/19 |
| a. Go to Lowes and buy supplies to make table.                    | 1/28/19 |
| b. Have parents help us assemble game board with the supplies.    | 1/29/19 |
| 2. Review Rules   | 1/19/19 |
| a. Print out game rules and have all team members read over them. | 1/14/19 |
| b. Discuss the best way to make points the most points.           | 1/21/19 |
| 3. Create game plan   | 1/30/19 |
| a. Study rules and find fastest way to make the most points.      | 1/17/19 |
| b. Write pseudo code for game plan and see if it makes sense.     | 1/25/19 |

### Robot Building Goals and Tasks

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|--|---------|
| 1. Create Blueprints for Create and Lego bot.                | 1/31/19 |
| a. Create depictive drawing of a prototype Create.           | 1/28/19 |
| b. Create depictive drawing of a prototype.                  | 1/28/19 |
| 2. Start building the create                                 | 2/9/19  |
| a. Determine a way to build the create.                      | 2/7/19  |
| b. Attach servo on create.                                   | 2/8/19  |
| c. Attach arm to servo to grab the people on the sky bridge. | 2/9/19  |
| 3. Start building the Lego bot                               | 2/9/19  |
| a. Attach servo to Lego bot.                                 | 2/7/19  |
| b. Attach arm to servo.                                      | 2/8/19  |
| c. Add counterweight to the back of the wallaby.             | 2/8/19  |

## Programming Goals and Tasks

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|---|---------|
| 1. Write code for create  | 2/16/19 |
| a. Write pseudo code for create.                                  | 2/9/19  |
| b. Code the servo to get the people off the sky bridge.           | 2/12/19 |
| c. Start using ticks for more precise movement.                   | 2/12/19 |
| 2. Write code for Lego bot  | 2/16/19 |
| a. Write pseudo code for Lego bot.                                | 2/9/19  |
| b. Code the servo to shove the firemen out of the fire pole.      | 2/12/19 |
| c. Start using ticks for more precise movement.                   | 2/12/19 |
| 3. Code the camera  | 2/16/19 |
| a. Learn how to code the camera.                                  | 2/9/19  |
| b. Apply that learning to separate between injured and uninjured. | 2/12/19 |
| c. Apply learning to find the burning medical center or not.      | 2/15/19 |

## Documentation goals and tasks

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|--|---------|
| 1. First documentary completed and submitted                       | 1/28/19 |
| a. Have a team meet and assign project area to team members.       | 1/16/19 |
| b. Review project one and submit.                                  | 1/28/19 |
| 2. Get all documentation completed and submitted for second period |         |
| a. Assign team members to documentation team.                      | 1/19/19 |
| b. Review rubric and example for each documentation term.          | 1/21/19 |
| c. Submit each documentation.                                      | 2/19/19 |
| 3. Grammar and Spelling check for third period                     |         |
| a. Write documentation.  | 3/4/19  |
| b. Use spell check and check all spelling and grammar.             | 3/5/19  |
| c. Submit each documentation.                                      | 3/6/19  |

## Schedule Conflicts

- |  |            |
|--|------------|
| 1. Show choir contest - several out of state                       | 2/22-23/19 |
| 2. Track practice - move Tue/Thur practice later (5-7) starting on | 2/11/19    |
| 3. Show choir clinic - several gone                                | 1/28-29    |

# **Team organization**

## **Scheduled of Meeting Times**

Regional workshop-January 12-13

Regional tournament- March 9th

Team Practices on Tuesdays, Thursdays & Saturdays 4-6 PM 1/14/19- 3/9/19

*Jan 15, 17, 19, 22, 24, 26, 29, 31; Feb 2, 5, 7, 9, 12, 14, 16, 19, 21, 23, 26, 28 March 2, 5, 7*

## **Division of Labor**

Create bot build - Josiah & Matt

Lego bot build- Ben & Will

Programming Lego bot- Josiah & Matt

Programming Create- Ben & Will

Documentation Team – Will, Ben, Josiah, Matt

Ben is Student team leader

## **Conflict resolution**

Team members will treat others as they want to be treated.

Final say for builds and programming goes to team leads as listed in organization chart.

If disagreement cannot be resolved, team sponsor will be final say.