

Goals and Tasks for Botball 2019

Team name JA Jedi / Team Number 0187

Region: Oklahoma

Game Goals and Tasks

1. Review the game docs and workshop slides. 1/14/19
 - a. Set up a projector and chromebooks. 1/14/19
 - b. Copy and distribute the score rubric. 1/14/19
2. Brainstorm Strategies. 1/14/19
 - a. Brainstorm scoring and to score as much as we can in the time limit. 1/14/19
 - b. Break the 2 minute time clock into 15 seconds intervals for both robots. 1/14/19
3. Successfully make use of the camera at competition. 3/9/19
 - a. Detect the burning skyscraper.
 - b. Detect the burning medical complex.

Robot Building Goals and Tasks

1. Build the demo bots 1/14/19
 - a. Become comfortable with working with the servos and motors. 1/14/19
 - b. Becoming comfortable with making actuator. 1/14/19
2. Build the Create bot for competition. 2/4/19
 - a. Build the shifting parallelogram for arm. "Paralever" 2/4/19
 - b. Building a working actuator with an arm, elbow, and wrist. 2/4/19
3. Build the small wallaby bot 1/24/19
 - a. Mount the camera. 1/24/19
 - b. Build a working claw. 2/4/19

Programming Goals and Tasks

1. Acquaint ourselves with programming movements. 1/14/19
 - a. Get comfortable with basic programming movements. 1/14/19
 - b. Become acquainted with precise programming movements. 1/14/19
2. Programming the Create bot. 2/14/19
 - a. Program the rangefinder to detect the gas valve(s). 2/21/19
 - b. Program servos to precisely move the gas valve(s). 2/21/19
 - c. Test the code with the build. 2/21/19

3. Program the small wallaby bot. 2/14/19
 - a. Program the robot to pick up cubes. 2/14/19
 - b. Program the camera to locate the burning buildings. 2/14/19
 - c. Test the code with the actual builds. 2/21/19

Documentation Goals and Tasks

1. Complete 1st period documentation. 1/28/19
 - a. Set up the rubric on the projector. 1/24/19
 - b. Discuss the rubric as a group. 1/24/19
2. Discuss 2nd period documentation. 2/20/19
 - a. Set up the rubric on the projector. 2/18/19
 - b. Discuss the rubric as a group. 2/18/19
3. Complete 3rd period documentation. 3/6/19
 - a. Set up the rubric on the projector. 3/4/19
 - b. Discuss the rubric as a group. 3/4/19

Schedule Conflicts

1. Basketball Games
2. Hog Shows
3. Study Hall

Team Organization

1. Regional Workshop- 12th and 13th
 Regional Tournament- March 9th
 Each Botball meeting is from 5:30- 7:30
 Schedule for January- 14th,17th,21st,24th,28th,31th
 February- 4th,7th,11th,14th,18th,21st,25th,28th,
 March- 4th and 7th

Division of Labor

Adult Team Leader- Zack Duffy
 Robot Building team for the Create bot- Calvin and Christefer
 Robot Building team for the small bot- Jose and Jacob
 Programmers for the create- Cory
 Programmers for the small Wallaby bot- Destanie and Priscilla
 Documentation Team- Cory and Jose
 Team Leader- Calvin

Conflict Resolution

When team members have a disagreement, they attempt to work the problem out between themselves. If they are unable to work it out by themselves, they will address it to the team leader. If the team leader can't decide, the team shall bring the problem to the adult team leader's attention.