

Region: Greater DC/ Virginia

Period One – Project Plan

Goals and Tasks for Botball 2019

1) *Game Goals and Tasks*

- a) Figure out what parts are allowed and what parts are not allowed, 2/5/19
 - i) Try to use allowed parts, 2/5/19
 - ii) Review all rules to check if we are using allowed or illegal parts, 2/5/19
- b) Review all game points and try to come up with the strategy for highest points possible, 2/12/19
 - i) Try to get good points for good seeding, 2/12/19
 - ii) Check what the easiest points to get for individual bots are, 2/12/19
- c) Review a game map and understand the structure of the game, 2/24/19
 - i) Learn the structure of the game map and the pieces, 2/24/19
 - ii) Learn what are allowed for our robots' actions, 2/24/19

2) *Robot Building Goals and Tasks*

- a) Come up with a plan to build the Create and learn how to control the Create, 2/5/19
 - i) Make a plan for the Create and build it, 2/5/19
 - ii) Learn coding for running Create and test it, 2/5/19
- b) Build and learn how to control the Demobot, 2/12/19
 - i) Build the Demobot, 2/12/19
 - ii) Learn to code the Demobot, 2/12/19
- c) Learn how to make the robot move when the light flashes, 3/5/19
 - i) Add the sensor, 3/5/19
 - ii) Code the sensor to tell the robot to move when the light turns on and test.

3) *Programming Goals and Tasks*

- a) Code the sensor to command the robot to move when the light turns on, 3/4/19

- i) Learn how to code it, 3/4/19
 - ii) Test it until its 100% accurate, 3/4/19
- b) Complete coding the Create, 3/4/19
 - i) Code it to get points as much as possible, 3/4/19
 - ii) Test it until there are no mistakes, 3/4/19
- c) Complete coding the Demobot, 3/4/19
 - i) Code it to get more points and any leftover from Create, 3/4/19
 - ii) Test it to make sure it doesn't collide with the Create, 3/4/19

4) Documentation Goals and Tasks

- a) First Period Documentation Complete, 2/5/19
 - i) All work together to complete the documentation, 2/5/19
 - ii) Each will contribute to fill out the requirements, 2/5/19
- b) Second Period Documentation Complete, 2/27/19
 - i) All will work out plan for the Documentations, 2/27/19
 - ii) All will contribute to fill out the requirements, 2/27/19
- c) Third Period Documentation Complete, 4/3/19
 - i) All will work out plan for the Documentations, 4/3/19
 - ii) All will contribute to fill out the requirements, 4/3/19

5) Schedule Conflicts

- a) Few members are playing sports that may conflict with Botball schedule.
- b) Sickness or any other injuries.
- c) President Day and Half Day School closing

Team Organization

Schedule of Meeting Times:

Workshop- Jan 19-20th

Monday to Friday: 2:20 to 3:45pm (Not including possible events)

Tournament- April 6th

Division of Labor: Josiah Armstrong and Jose Murillo- Create (Coding and Building both) Vilananda Aridanyanto mainly work on coding while Robert Stewart does building, but both will share the burden.

Josiah Armstrong and Jose Murillo- Demobot (Coding and Building both) Josiah and Jose have equal work in both building and coding.

Conflict Resolutions:

Team conflicts will be solved in following steps:

1. Discuss this among each other
2. If #1 fails, have a debate with remaining members of the team
3. If #2 fails, hold off the argument until after the tournament. We will need all cooperation.