

Period One - Project Plan

Goals and Tasks for Botball 2018-2019

TJHSST Colonials 2; Team # 0142

<i>Game Goals and Tasks</i>	<i>Deadlines</i>
1. Brainstorm Robot Mechanisms and Strategy	1/13/19
a. Identify game rules to optimize scoring	1/13/19
b. Design effective robot layout	1/13/19
2. Review Game Design and Study Rules	1/17/19
a. Determine how to counter opponent strategies	1/17/19
b. Vote on the best game strategy based on rules	1/17/19
3. Build Game Board	1/24/19
a. Get a list of supplies needed from Team Leader and gather resources from Home Depot	1/20/19
b. Team convenes and builds the board together	1/20/19

<i>Robot Building Goals and Tasks</i>	<i>Deadlines</i>
1. Develop a plan for building the robot	2/2/19
a. Brainstorm as a team and make sketches for possible robot designs	2/2/19
b. Create Robot Budget for Components	2/2/19
2. Create Robot Prototype with Measurements and Constraints	2/8/19
a. Create set of Labeled 3D Diagrams for Lego and Create robots based on strategy design	2/8/19
b. Split up Robot design amongst various team members	2/8/19
3. Complete Robot Chassis Construction	2/23/19
a. Get a list of supplies needed from Team Leader and gather resources from Home Depot	2/23/19
b. Assemble robot sub-components into a functional machine	2/23/19

<i>Programming Goals and Tasks</i>	<i>Deadlines</i>
1. Conduct Basic Tests	3/2/19
a. Make sure all sensors are usable	3/2/19
b. Conduct basic moves (moving forward, backward, turning)	3/2/19
2. Develop and finish program for Create Robot	3/8/19
a. Brainstorm ideas and develop pseudo code for the Robot Program	3/8/19
b. Program movement for collecting bins	3/8/19
c. Program movement for dumping material	3/16/19
d. Program movement for hooking disks	3/16/19
e. Ensure programming is compatible with the robot/build team	3/16/19
3. Develop and finish program for Create Robot	3/30/19
a. Brainstorm ideas and develop pseudo code for the Robot Program	3/23/19
b. Program movement for collecting bins	3/23/19
c. Program movement for dumping material	3/30/19
d. Program movement for hooking disks	3/30/19
e. Ensure programming is compatible with the robot/build team	3/30/19

<i>Documentation Goals and Tasks</i>	<i>Deadlines</i>
1. Finish First Period Documentation	2/2/19
a. Generate Overall Schedule with Tasks, meetings, and deadlines'	2/2/19
b. Communicate with other sub-teams to create reasonable goals	2/2/19
2. Finish Second Period Documentation	2/23/19
a. Gather progress information from build team	2/23/19
b. Gather progress information and code from programming team	2/23/19
3. Finish Third Period Documentation	2/30/19

a. Create and distribute team satisfaction analysis	2/30/19
b. Identify strengths and weaknesses of season	2/30/19

Schedule Conflicts	Dates
Snowstorm/Inclement Weather - could not convene at school or elsewhere	1/13/19, 2/1/19
Holiday - no school, no meeting	1/13
Driving distances - some members live very far away, tough time on heavy traffic days	1/13

Team Organization

Schedule of Meeting Times:

Regional workshop - 1/19/19 - 1/20/19

Regional Tournament - 4/6/19

Each meeting will be from 1-8 pm for weekends and 2-4 on weekdays

Schedule for January - 12th, 17th, 24th, 26th

Schedule for February - 2nd, 8th, 16th, 23rd

Schedule for March - 2nd, 9th, 23rd, 30th

Division of Labor:

Adult Team Leader: Marion Billington

Administrative and Build Team Leader: Sujay Kandwal

Strategy Developers: Adam Yao, Arjun Aggarwal, and Shirui Zhou

Robot Designers: Mark Putman, Daniel Kim, Hari Shanmugaraja, and Rishi Lahoti

Robot Building Team: Vaidic Naik, Rishi Tadepalli, and Sohan Sunku

Software Developers: Danny Park, Kirill Usubyan, and Tommy Park

Administrative Documentation and Strategic Team: Vishnu Maddipatla and Addison Phelps

Documentation Consultant - Sree Revoori, Rakesh Pillai, and Vishakh Subramanian

Troubleshooting Team - Mihir Sanad, Nitin Maddi, Praneeth Malayala, Trenton Elliott

Conflict Resolution:

If there are disagreements/conflicts between team members, they will be resolved as follows:

1. Firstly, those in disagreement will attempt to resolve the conflict themselves by stating their reasoning and thoughts behind their opinions one after another.
2. If the conflict is still not resolved, the issue will be brought to the team leader, Sujay Kandwal.
3. If the conflict is still not resolved, the issue will undergo a team vote and the entire team will vote on how to resolve the conflict.
4. If the vote is tied or close, the final decision will belong to the Adult Team Leader, Marion Billington.