

GMHS Hornets #2  
Team Number: 0248  
Greater DC/Virginia

Goals and Tasks for Botball 2019

Game Goals and Tasks	Deadlines
1. Understand the rules of the Botball game	01/31/2019
a. Copy and print separate rule sets for each member to keep	02/02/2019
b. Make sure that everybody knows what is considered illegal and legal in the game.	01/31//2019
2. Fully understand the goals that need to be completed	02/08/2019
a. Run through the goals of the game to every team member	02/01/2019
b. Run through our proposed full run on the game board. (without robots)	02/08/2019
3. Create a drawing of the Botball board	02/13/2019
a. Take measurements of the board's different parts and spaces	02/08/2019
b. Record the distances of where the robot will be headed.	02/11/2019

Robot Building Goals and Tasks	Deadlines
1. Drawing of the Create and LEGO Robots	02/06/2019
a. Make a labeled drawing of the Create robot with the arm, ignus chain and collection blade	02/06/2019
b. Make a labeled drawing of the LEGO robot with the arm and bucket	02/06/2019
2. Construction of the Create Robot	02/27/2019
a. Construct an arm and fix the igus chain to the robot (for grabbing and placing materials)	02/18/2019
b. Construct a collection blade (for pushing materials)	02/25/2019
3. Construction of the LEGO Robot	02/27/2019
a. Construct an arm with a hook (for scooping up supplies)	02/18/2019

b. Construct a bucket with a retractable bottom (for transporting materials to different zones on the board)	02/25/2019
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Programming Goals and Tasks	Deadlines
1. Sensing	02/27/2019
a. Being able to sense burning buildings.	02/18/2019
b. Being able to sense what building bot guy and the mayor are on.	02/25/2019
2. Lego	03/08/2019
a. Push and fill the water reclamation unit.	02/18/2019
b. Place the gas valve on the PVC pipe.	02/27/2019
c. Push food and medical supplies.	03/01/2019
d. Retrieve uninjured people to non burning zone.	03/07/2019
3. Create	03/08/2019
a. Give some water to the lego robot.	02/18/2019
b. Grab botguy or mayor	02/27/2019
c. Move fire truck to flood zone	03/01/2019
d. Put meds and fireman on top of the correct medical center	03/07/2019

Documentation Goals and Tasks	Deadlines
1. Completion of First Period Documentation Goals	01/30/2019
a. Assign tasks of programmers and builders for each robot decide on goals of each robot	01/28/2019
b. Programmers and builders work together to decide on paths of both robots	01/29/2019
c. Team leader assigns each member a section of the P1 Project Plan to complete	01/29/2019

2. Completion of Second Period Documentation Goals	02/27/2019
a. Builders will create a video explaining the design of both robots, as well as explaining how different components were tested.	02/24/2019
b. Programmers will create a Github account and create at least one commit.	02/24/2019
3. Completion of Third Period Documentation Goals	04/03/2019
a. Programmers will make sure that the Github account is created and that at least one commit is present	04/01/2019
b. Programmers also ensure that at least one pull request has been made to the repository	04/01/2019
c. All members meet to discuss and create the Lessons Learned document	04/02/2019

Schedule Conflicts	Deadlines
2 hour Early Dismissal, Professional Responsibilities	02/15/2019
Presidents Day, No School	02/18/2019
2 hour Early Dismissal, End of Interim Period	03/01/2019
After school sports starting March 1st, Most students unavailable after school.	03/01/2019 - 4/06/2019

Team Organization	Deadlines?
1) Meetings <ul style="list-style-type: none"> <li>a) Mondays, Wednesdays and Fridays are the typical in class meetings that are planned.</li> <li>b) After-school meetings will be scheduled as needed in order to meet the determined deadlines.</li> </ul>	
2) Group Division- groups are divided in this manner so that the two teams can work around each other in an organized manner and to fulfill our goals on time. Teams will work on their assigned parts simultaneously to get as much done in a short amount of time so that we can then regroup and test.	

<p>a)Lego Robot</p> <ul style="list-style-type: none"> <li>-Program: Sausan R., Julia W.</li> <li>-Build: Chloe C., Sean D.</li> </ul> <p>b) Create Robot</p> <ul style="list-style-type: none"> <li>-Program: Anthony W., Dylan H.</li> <li>-Build: Kaitlyn S., Julia W.</li> </ul> <p>** Julia Wright- team lead</p>	
<p>3) Conflict Resolution</p> <ul style="list-style-type: none"> <li>-When a conflict and disagreement arises, those involved will present to the entire group who will then take a vote on how to proceed; majority wins.</li> </ul>	