

Goals and Tasks for Botball 2023

Game Goals and Tasks

- a) Familiarize with Everything
 - 1) Know game rules 02/12/23
 - 2) Introduce ourselves 02/12/23
- b) Organize
 - 1) Assign roomba and wombat groups 02/12/23
 - 2) Work out jobs completely 02/26/23
- c) Strategize
 - 1) Figure out game plan 03/12/23
 - 2) Document into project plan 03/12/23

Robot Building Goals and Tasks

- a) Learning Builds
 - 1) Review parts 03/12/23
 - 2) Learning how to use servos 03/19/23
 - 3) Learn about gears 03/26/23
 - 4) Learn how to build geared claws 03/26/23
- b) Building Parts
 - 1) Build Base of Roomba and Wombat 03/05/23
 - 2) Attach light sensors 03/12/23
 - 3) Build geared claws (one for each robot) 03/26/23
 - 4) Build retractable claw 04/02/23
 - 5) Build claws and arms to attach to both robots 04/02/23
 - 6) Finish building and attaching arms 04/16/23
 - 7) Finalize both robots 05/19/23
- c) Strategy
 - 1) The roomba will have a static plow arm which will be used to push the corrupt and test files into the analysis lab 05/19/23
 - 2) The arm will also be used to push the wireshark and carry the packets into the analysis lab. 05/19/23
 - 3) The Wombat will rush to the BotGal and grab and place her in the analysis lab before the other team. Then we'll grab the backup drives and get those into the analysis lab after. 05/19/23
 - 4) The roomba will drive and grab the botgal using a retractable claw and bring it to the analysis lab. And will grab one green noodle to put in the slot and the other two into the analysis lab 05/19/23
 - 5) Wombat will get the poms and the wireshark before obtaining the ping pong balls and bringing all of it to the analysis lab 05/19/23

Programming Goals and Tasks

- a) Familiarize with C Programming
 - 1) Learn introduction to C programming 02/12/23
 - 2) Learn how to use "If, Not, And" codes 02/26/23
 - 3) Learn how to code tire circumference 02/26/23
 - 4) Learn "If Else" statements 02/26/23
 - 5) Learn "Print All numbers" statement 02/26/23
 - 6) Learn how to line follow 03/19/23
- b) Start Programming Robots
 - 1) Start testing program on robots 03/05/23
 - 2) Both roomba and wombat should run with the initial, basic program 03/05/23
 - 3) Start line following program 03/19/23
 - 4) Upload initial program to GitHub 04/02/23
- c) Continue Programming
 - 1) Finish programming wombat arms 04/09/23
 - 2) Finish with programming roomba claws 04/16/23
 - 3) Finish program for both robots 05/19/23

Documentation Goals and Tasks

- a) Document Building Parts
 - 1) Document parts when building robot bases 03/05/23
 - 2) Document
- b) Document Programming
 - 1) Upload starting program for both robots to GitHub 04/02/23
 - 2) Finish updating progress on both programs 05/19/23
- c) Document Jobs and Tasks
 - 1) Establish jobs 02/26/23
 - 2) Give specific tasks 02/26/23

Schedule Conflicts

- a) Late to Meetings
 - 1) Depending on how much they missed, the rest of the team will have to explain and help them.
 - 2) We can also ask the coaches to help anyone who is late.
- b) Missed Meetings
 - 1) Depending on who missed a meeting we will get someone to take their job.
 - 2) If a programmer is gone all of us have some experience with programming so we could choose who takes their job for the day.
 - 3) If a stenographer is gone the other one can take both stenography jobs for the day.
 - 4) Building and any other documentation jobs can be replaced briefly
- c) Missed Meetings because of Spring Break, Holidays, Etc
 - 1) Sometimes meetings will be canceled because of breaks or if many people are not coming.
 - 2) Some people will miss multiple meetings because of spring break vacation. If that happens either multiple or one person will take over their jobs
 - 3) If they miss any in-between week meetings we'll have to know how many

Team Organization

Yellow highlight = classes we've gone to

Blue highlight = classes we will go to

Purple highlight = *possible* other meetings: spring break, between weeks, etc.

February

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12 (start)	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

March

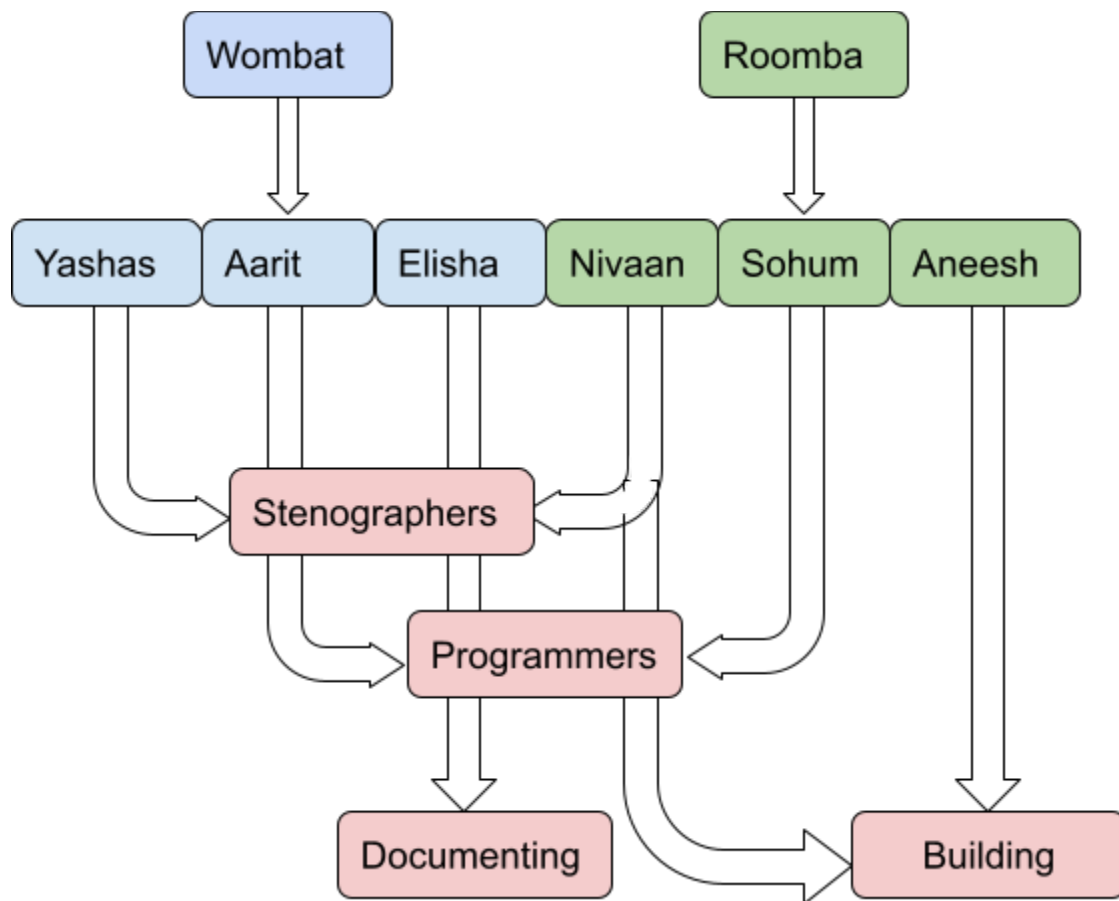
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

April

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

May

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20 (end)
21	22	23	24	25	26	27
28	29	30	31			



We already have had a few conflicts in the past weeks. When discussing our game plan, we had many different ideas and takes on the situation. So, we each shared our ideas and then came up with one that we all agreed on. It did take some time to finalize our decisions amongst everyone, but we all came to an agreement. We also have had conflicts with buildings. On April 2nd, Aarit, Nivaan, and Yashas were working on one of the claws. They argued because one or the other would mess up. But, they did it carefully and managed to make a successful claw for the wombat by the end of class. They were also arguing again (on the same day) about how to use the claw to accommodate the game plan. So, they discussed the game plan first then continued working on where to put the claw on the wombat. Even though they didn't get through as much as they wanted, they were still successful with the task. Team members arguing will be reminded to just discuss calmly and listen to each other. If there is a problem we'll address it to everyone and then discuss how to resolve it. If we do end up not being able to work out a compromise, we'll cast a vote. And, we will make sure to get everyone's perspective on conflicts to involve the entire team.