Period One – Project Plan

Goals and Tasks for Botball 2018

Game Goals and Tasks

1. Goal – organize team.
   a. Deadline: February 22.
   b. Task 1 – Decide on leadership.
      i. Deadline – February 22.
   c. Task 2 – Separate into teams.
      i. Deadline – February 22.
2. Goal – Learn about this year's game.
   a. Deadline – March 2.
   b. Task 1 – Attend workshop.
      i. Deadline – February 24 – 25.
   c. Task 2 – Review documents with team.
      i. Deadline – March 2.
3. Goal – Decide on strategy.
   a. Deadline – March 2.
   b. Task 1 – Discuss optimal point scoring methods.
      i. Deadline – March 2.
   c. Task 2 – Allocate tasks to robots.
      i. Deadline – March 2.

Robot Building Goals and Tasks

1. Build VacuumBot (to Push Poms to End Zone.)
   a. Deadline: March 8.
   b. Task 1 – Rebuild Roomba shield.
      i. Deadline: March 8.
   c. Task 2 – Learn to program the Roomba.
      i. Deadline: March 8.
2. Rebuild ClawBot to Mickey Mouse bot.
   a. Deadline: March 8.
   b. Task 1 – Construct robot.
      i. Deadline: March 8.
   c. Task 2 – Build color sorter.
      i. Deadline: March 8.

3. Build Minnie Mouse bot (to move Date Crates and Botguy.)
    a. Deadline: March 8.
    b. Task 1 – Construct claw to grab Date Crates and Botguy.
        i. Deadline: March 8.
    c. Task 2 – Check for button sensor compatibility.
        i. Deadline: March 8.

Programming Goals and Tasks

1. Push poms, onto End Zone using the Roomba.
    a. Deadline – March 15.
    b. Task 1 – Move to middle.
        i. Deadline: March 15.
    c. Task 2 – push objects to End Zone.
        i. Deadline: March 15.
2. Program color sorting.
    a. Deadline: April 13.
    b. Task 1 – Program camera.
        i. Deadline: March 15.
    c. Task 2 – Program color sorting.
        i. Deadline: April 13.
3. Grab Cubes and Botguy.
    a. Deadline: April 13.
    b. Task 1 –Grab Botguy and Date Crates.
        i. Deadline: March 15.
    c. Task 2 – Place Botguy and Date Crates in Yellow Zone.
        i. Deadline: April 13.

Documentation Goals and Tasks

1. Goal – complete period 1 documentation.
    a. Deadline: March 14.
    b. Task 1 – Learn about the documentation requirements.
        i. Deadline – March 2.
    c. Task 2 – Interview team about documentation methods.
        i. Deadline – March 8.
2. Goal – Complete period 2 documentation.
    a. Deadline: March 28.
    b. Task 1 – Interview construction team.
        i. Deadline – March 28.
    c. Task 2 – Interview programming team.
        i. Deadline – March 28.
3. Goal – Complete period 3 documentation.
    a. Deadline: April 18.
    b. Task – Get team members to take the online survey.
        i. Deadline April 13.
    c. Task 2 – Ask teammates about the Botball experience.

i. Deadline: April 13.

Schedule Conflicts

1. End of sports seasons.
   a. Many team members will be unavailable until winter sports are complete.
   b. Date: February 1 – March 2.
2. Spring Break.
   a. Many team members will be unavailable.
   b. Date: March 26 – April 6.
3. Open House.
   a. Meeting room is unavailable.
   b. Date: March 1.

Team Organization

Team meeting times:
- Team meetings will be every Thursday at 3:15 p.m. in room 10, from January 10 to April 21.

Division of Labor:
- Half of the team builds robots.
- Half of the team programs the robots.

Conflict Resolution:
- For any conflicts that arise, we will vote as a team.