River Valley Botball Team

14-0085

Greater San Diego Area

Period 1 Project Plan

Goals and Tasks for Botball 2014

Games Goals and Tasks

1. Goal – Organize team.
   a. Deadline – January 27
   b. Task 1 – Decide on leadership.
      i. Deadline – January 27
   c. Task 2 – Separate into teams.
      i. Deadline – January 27
2. Goal – Learn about this year's game.
   a. Deadline – January 27
   b. Task 1 – Attend workshop.
      i. Deadline – January 24-25
   c. Task 2 – Review documents with team.
      i. Deadline – January 27
3. Goal – Decide on strategy.
   a. Deadline – January 27
   b. Task 1 – Discuss optimal point scoring methods.
      i. Deadline – January 27
   c. Task 2 – Allocate tasks to robots.
      i. Deadline – January 27

Robot Building Goals and Tasks

1. Goal- Move 2 orange cubes from right upper shelf to orange PT bin.
   a. Deadline – March 15
   b. Task 1 – Construct arm that reaches up to orange cube shelf.
      i. Deadline – March 15
   c. Task 2 – Construct orange cube grabbing mechanism.
      i. Deadline – February 28
2. Goal – Move majority of poms into upper storage area; move minority of poms to lower storage area.
   a. Deadline – March 10

b. Task 1 – Construct mass pom grabber.
      i. Deadline – March 10
   c. Task 2 – Construct camera assisted pom sorter.
      i. Deadline – March 10
3. Goal – Place hangers on lower rack.
   a. Deadline – February 24
   b. Task 1 – Design hanger hanger.
      i. Deadline – February 14
   c. Task 2 – Design hanger hanger mount.
      i. Deadline – February 24

Programing Goals and Tasks

1. Goal- Move 2 orange cubes from right upper shelf to orange PT bin.
   a. Deadline – March 15
   b. Task 1 – Locating and moving to the orange cubes.
      i. Deadline – March 15
   c. Task 2 – Grabbing the orange cubes.
      i. Deadline – February 28
2. Goal – Move majority of poms into upper storage area; move minority of poms to lower storage area.
   a. Deadline – March 10
   b. Task 1 – Locate and move to the poms.
      i. Deadline – March 10
   c. Task 2 – Sort the poms.
      i. Deadline – March 10
3. Goal – Place hangers on lower rack.
   a. Deadline – February 24
   b. Task 1 – Research how to program the Create without the Link.
      i. Deadline – February 3
   c. Task 2 – Program Create without Link.
      i. Deadline – February 24

Documentation Goals and Tasks

1. Goal – Complete Period 1 documentation.
   a. Deadline – February 17
   b. Task 1 – Learn about the documentation requirements.
      i. Deadline - February 17
   c. Task 2 – Interview team about documentation methods.
      i. Deadline - February 17

2. Goal – Complete Period 2 documentation.
    a. Deadline – March 11
    b. Task 1 – Interview construction team.
        i. Deadline – March 11
    c. Task 2 – Interview programming team.
        i. Deadline – March 11
3. Goal - Complete Period 3 documentation.
    a. Deadline- March 25
    b. Task 1 – Get team members to take online survey.
        i. Deadline – March 25
    c. Task 2 – Ask teammates about their Botball experience.
        i. Deadline – March 25

Schedule Conflicts

1. Open House
    a. Robotics workshop not available.
    b. Date: February 5
2. Spring Break
    a. Team members on vacation.
    b. Date:
3. President's Day
    a. Many team members cannot attend Monday meeting.
    b. Date: February 17

Team Organization

Teem Meeting Times:

- Mondays and Wednesdays from January 27 – March 29 in the Robotics workshop.
- Saturdays from February 22 – March 29.

Division of Labor:

- One third of the team builds the bots.
- One third of the team programs.
- One third of the team builds the bots and programs.

Conflict Resolution:

- For any conflicts that arise, bring the issue to a neutral third party.