

THE TEAM:

Team Members:

- Ben Dunkerton
- Darron Anderson
- Darshen P Balachanthiran
- Kevin Scanlon
- Lars Lofquist
- Marshall Boser
- Sam Fuller

Required Skill Sets for Project:

- Logical Problem Analysis
- Embedded Systems
- App development (Front End and Back End)
- Testing/Debugging
- Circuit Integration
- C/Python/Java
- Machine Learning
- Data Analysis

Skill Sets Covered by Team:

- Ben - Embedded Systems, App development, Testing/Debugging, C/Java, LPA
- Darron - C/Python/Java, Embedded Systems, LPA
- Darshen - Python, Embedded Systems, LPA
- Kevin - App Development (Full Stack), C, Java, Embedded Systems, LPA
- Lars - Embedded Systems, Java, C, Python, App Development (Full Stack), Arduino
- Marshall - App Development (Back End), Java, Python, Embedded Systems
- Sam - Embedded Systems, Java, C, App Development (Full Stack)

Project Management Style Adopted by Team:

For the first semester we will be implementing a waterfall project style where we will tackle one problem at a time, and in the second semester we may consider agile development for our mobile application.

Initial Project Management Roles:

Initially we will as a group democratically assign roles each week and share the results in our weekly meeting, rinse and repeat.

TEAM CONTRACT:

Team Name:

Ra.bit [Racing autonomous bot intended for tracks] (Team 22)

Members:

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- Darron Anderson
- Darshen P Balachanthiran
- Kevin Scanlon
- Lars Lofquist
- Marshall Boser
- Sam Fuller

Procedures:

We are planning on having a weekly team meeting, with Discord as our main means of communication. We will make decisions democratically and at the end of every meeting, note any major updates or decisions made. We also plan on keeping a GitHub repo active as well as a wiki tracking our progress.

Participation Expectations:

We expect full participation, active communication, and regular attendance for meetings.

We expect a team member to give 24 hours notice when possible if they will not be able to make the team meeting.

We expect all team members to volunteer for various tasks.

We expect every team member to have a positive attitude and buy into our project.

We expect every team member to properly allocate time each week in order to complete any assigned task.

Leadership:

Currently we are working with a democratic approach to assigning roles in terms of weekly tasks and determining what items need to be completed.

Collaboration and Inclusion:

For the most part, all team members share skills, however Darron and Darshen are our experts in Software and EE respectively. To include their specific skill sets, we will set them as leads on the specific parts of the project that would utilize their expertise. All team members will share thoughts and seek to hear thoughts so that as we are brainstorming, the best and most viable ideas will rise to the top.

Goal-Setting, Planning, and Execution

Goals will be set on a week to week basis decided democratically

Team goals for semester:

We will brainstorm as a large group to set up overall goals for the semester, and after large goals are set, we will break them down into smaller and individual tasks.

To stay on task we will give weekly updates on project statuses and ensure to never assign a project task to only one person. This allows for increased accountability and throughput. We will also do code review style follow ups on tasks in order to confirm satisfactory results.

Our current team goals for the semester are:

Design the Rabbit

Get to a point where it can drive autonomously around the track

Start working on a base for our App

Consequences for Not Adhering to Team Contract:

If anyone is late to a meeting, they must be the test user for one test session of the rabbit car.

If a team member is late to 2 meetings in a row, or 3 meetings in a month, we will have them re-evaluate their participation level and adjust their schedule and or work load for the project accordingly.

If there are any instances of server infractions (i.e. not completing work, disrespect to other members, or unprofessional behavior that represents our team poorly) we will first meet with the team member in question, if the behavior continues, bring this to our TA, and if necessary our professor.

a)

I participated in formulating the standards, roles, and procedures as stated in this contract.

b)

I understand that I am obligated to abide by these terms and conditions.

c)

I understand that if I do not abide by these terms and conditions, I will suffer the consequences as stated in this contract.

1) Ben Dunkerton

DATE: 9/17/21

2) Darron Anderson

DATE: 9/17/21

3) Darrshen Balachanthiran

DATE 9/17/2021

4) Kevin Scanlon

DATE 9/17/21

5) Marshall Boser

DATE 9/17/21

6) Samuel Fuller

DATE 9/17/21

7) Lars Lofquist

DATE 9/17/21