

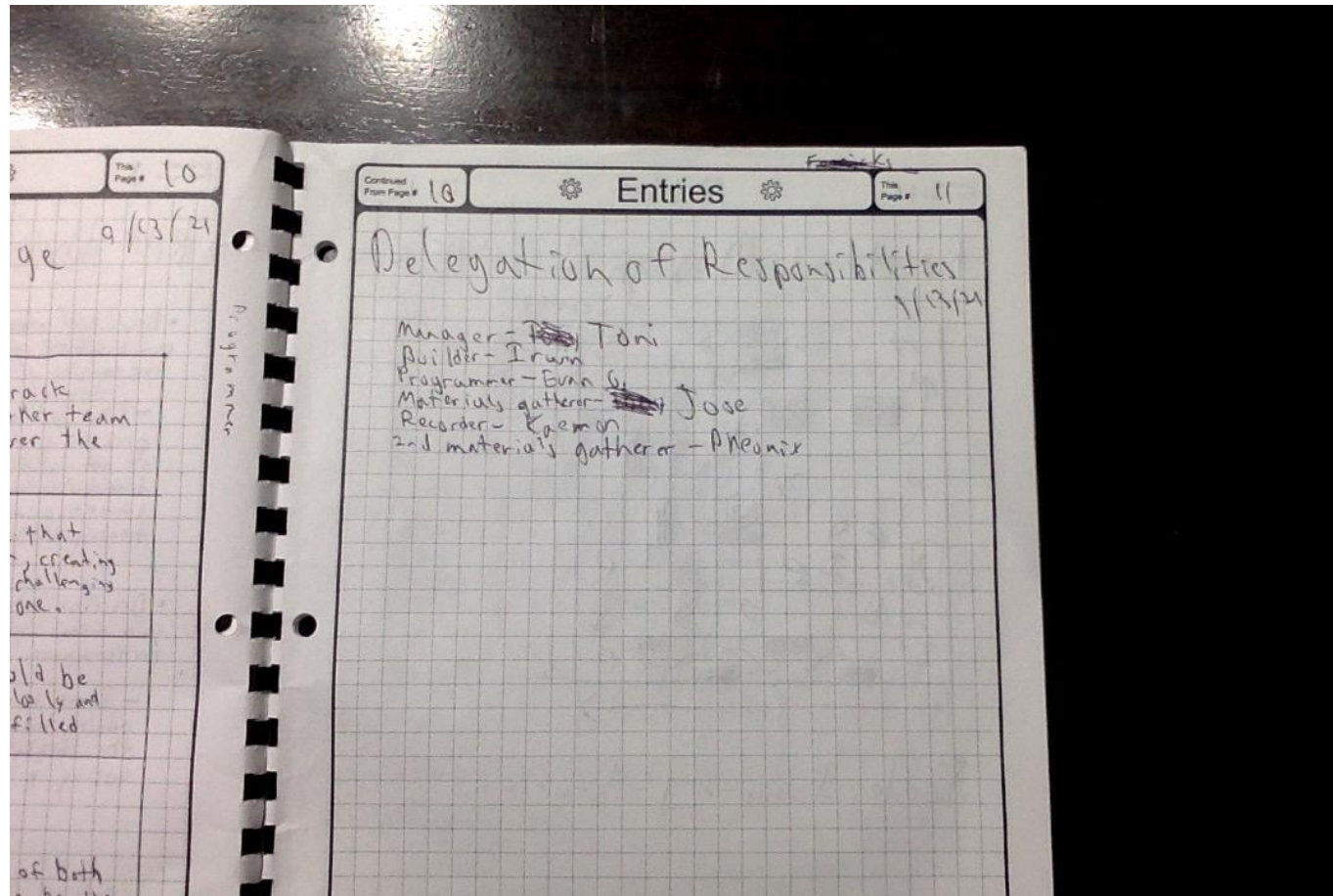
Robot Arena Design Process.

Design Brief

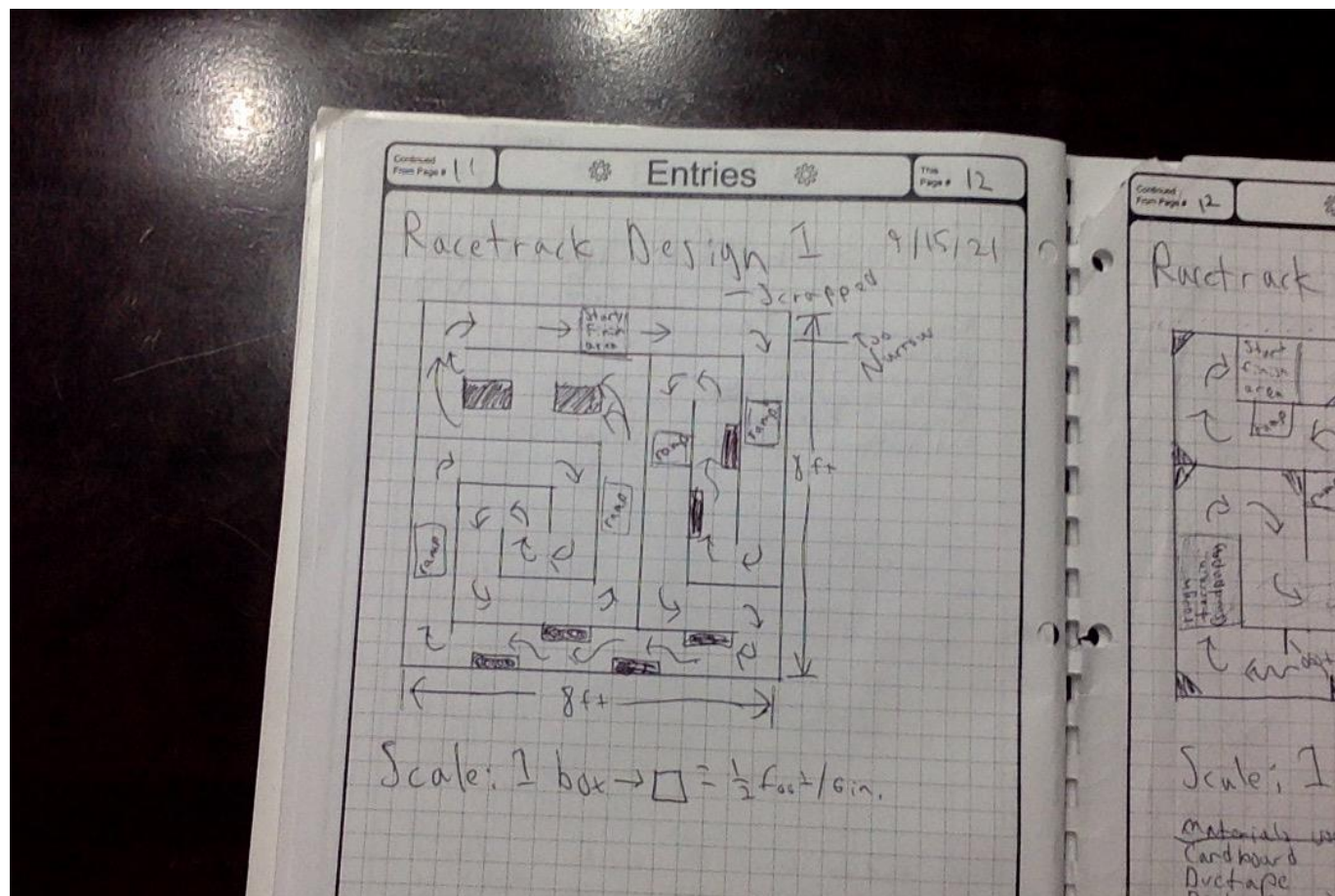
9		Entries	10	
Robo Rally Challenge 9/13/21 Design Brief				
Target: To either create a race track challenging enough for the other team or/and create a robot to maneuver the other team's race track.				
Problem to solve: creating a course that isn't too easy for the other team, creating a robot capable of maneuvering a challenging course, and putting together each one.				
Purpose: Designer's Approach would be to create the track and robot meticulously and precisely so that each goal is fulfilled.				
Constraints:				
Robots:		Course:		
• must begin and end at finish line		• Dimensions of both courses must be the same units and scale		
• Both teams will use the Drive Program on the Robot Brain		• Robot may be driven as a practice round once before recording		
OWNER / DESIGNER	DATE	UNIT	TITLE	PROJECT
Evan Gonzalez	9/13/21			
WITNESS / TEACHER	DATE	PROPRIETARY INFORMATION		

10		Entries
Delegation of		
Manager - Toni Toni		
Builder - Ivan Ivan		
Programmer - Evan G. Evan G.		
Materials gatherer - Evan G. Evan G.		
Researcher - Kayla Kayla		
2-d materials gatherer		
OWNER / DESIGNER	DATE	UNIT
Evan Gonzalez		
WITNESS / TEACHER	DATE	

Delegation of Responsibilities



1st Racetrack Design



2nd Racetrack Design

Page # 12

9/15/21

Appel
Too Narrow

6 in.

Continued from Page # 12

Entries

Page # 13

Racetrack Design 2 9/15/21

- Scrapped

Start/Finish area

obstacles

Banked turn

bump

bump

Possible drawing

obstacles

Finish

Scale: 1 box \rightarrow \square = $\frac{1}{2}$ foot / 6 in.

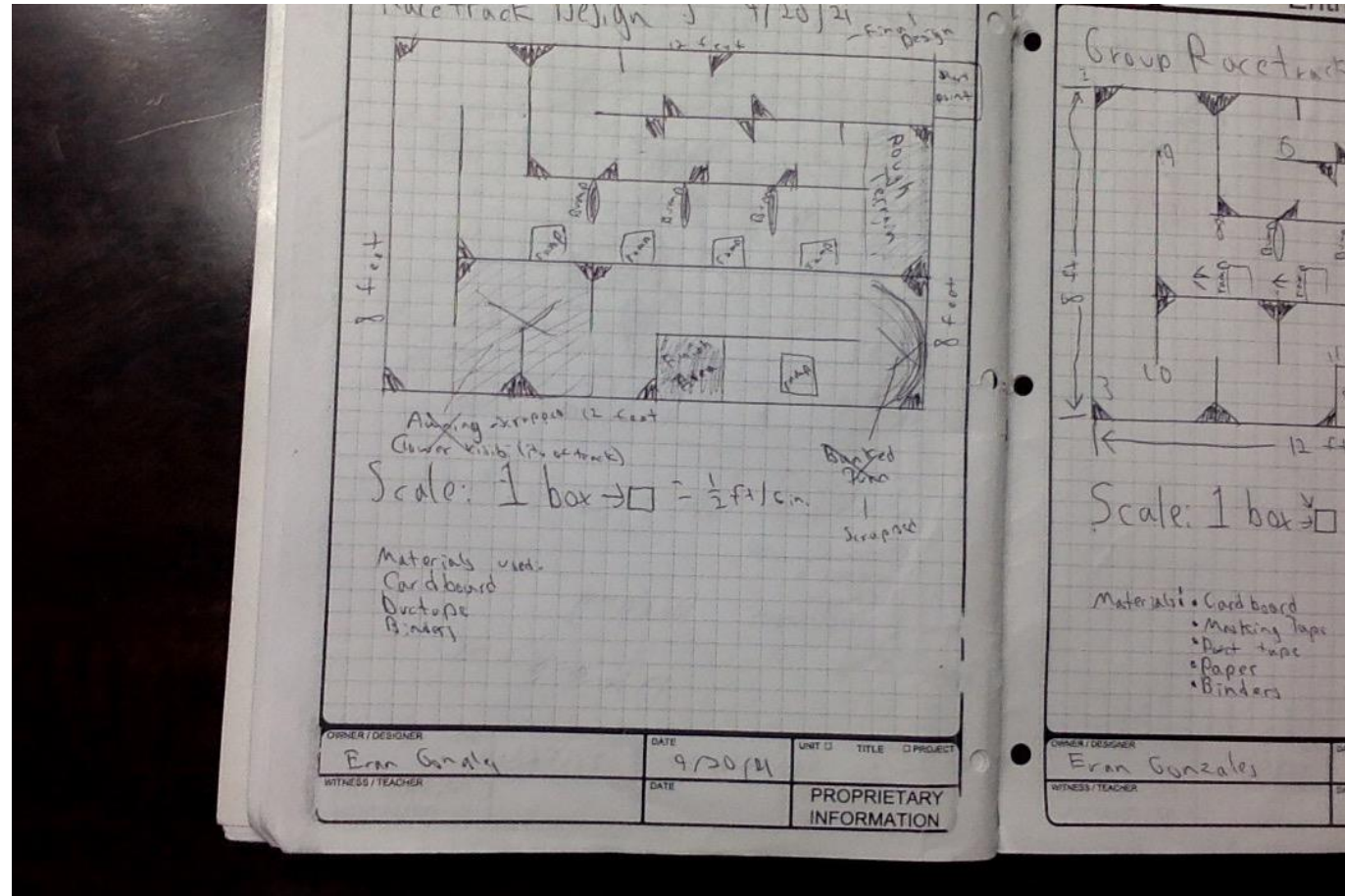
Materials used:

- Cardboard
- Duct tape
- Binders (ramps)
- Paper

Wrong Dimensions

OWNER / DESIGNER	DATE	UNIT #	TITLE	PROJECT
Evan Gonzalez	9/15/21			
WITNESS / TEACHER	DATE			
			PROPRIETARY INFORMATION	

3rd Racetrack Design



4th Racetrack Design

Group Racetrack Design 10/1/21

Scale: 1 box \rightarrow \square = $\frac{1}{2}$ ft / 6 in.

Point System for team:

- 100 Total
- 3 points off for hitting wall
- 2 points off for hitting outside
- 10 points for not making it through Rough Terrain

Materials:

- Card board
- Masking tape
- Duct tape
- Paper
- Binders

UNIT TITLE PROJECT

OWNER / DESIGNER
Eran Gonzales

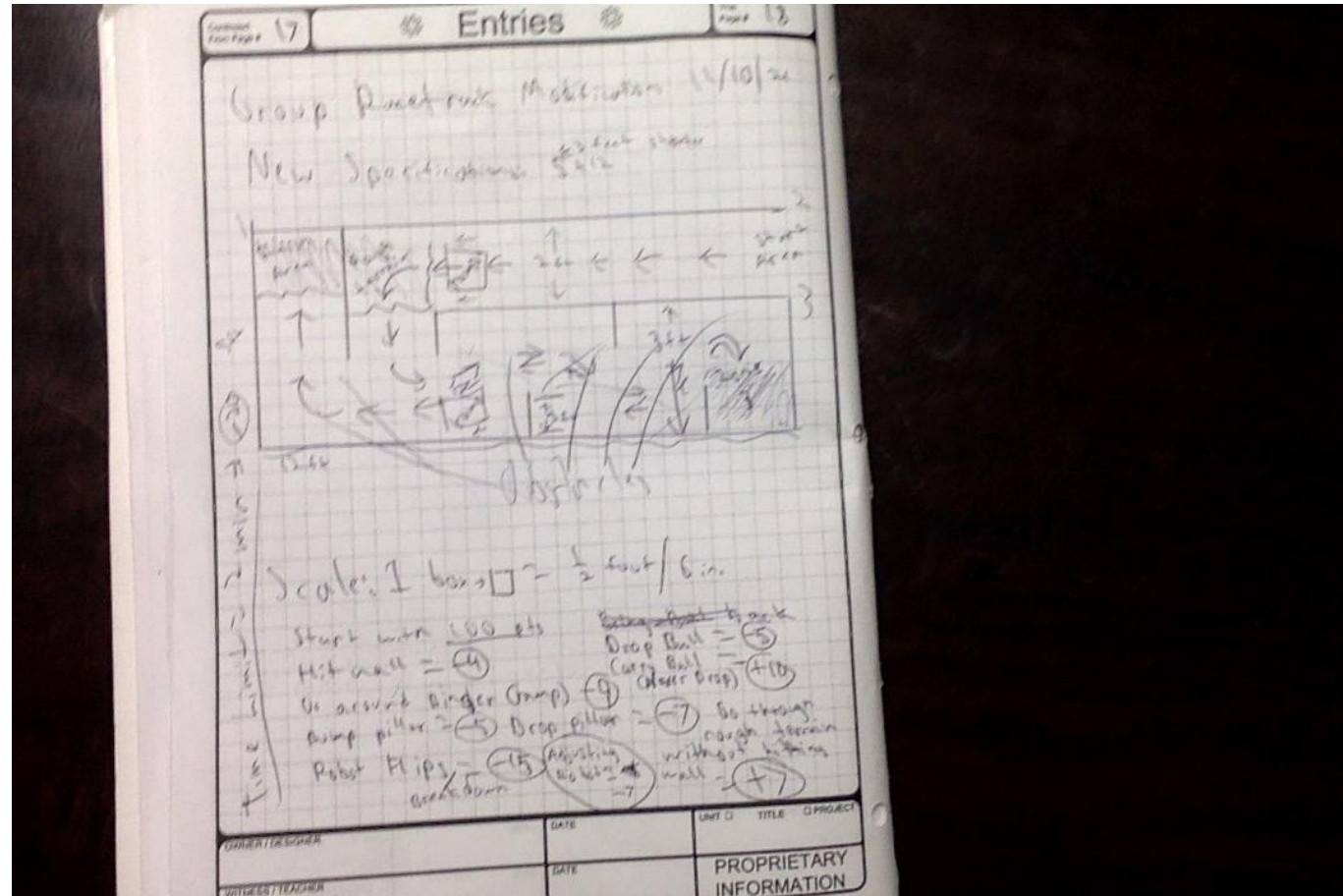
DATE
10/1/21

UNIT TITLE PROJECT

PROPRIETARY INFORMATION

PROPRIETARY INFORMATION

Final Racetrack Design With Maneuvering Strategy



Robot Design Sketch

