Team 22

Project Title: Rabbit

Date: 10/28/2021

Member role this week:

-Samuel Fuller – OpenCV and lane detection

-Ben Dunkerton- Getting the Jetson Nano running lane detention

-Marshall Boser- Make a test application for iphone

-Lars Lofquist- Gearing the car to go the required speed

-Darron - Work with the Jetson Nano and computer vision

-Kevin Scanlon - OpenCV for computer vision

-Darrshen - Lane detection filtering

What we've accomplished in the past week/what we've been researching

-Samuel Fuller – researched lane detection algorithms

-Ben Dunkerton- set up the jetson nano

-Marshall - worked with car control and the App

-Lars - Feather microcontroller is able to control both car steering & driving

-Darron - set up the Jetson Nano

-Kevin Scanlon - Researched computer vision

-Darrshen - researched filtering techniques for lane detection

What we're planning to do in the coming week

-Samuel Fuller – further research and meet to implement line detection

-Ben Dunkerton- Meet and start implementing lane detection on the Nano

-Marshall - Create a test App that can connect to the car with bluetooth

-Lars - Research and order parts for gearing the car correctly

-Darron - Meet and create a lane detection program

-Kevin Scanlon - Meet and start implementation of CV

-Darrshen - Meet and work on line detection

## Issues we had in the previous week

-Samuel Fuller – Simple lane detection for straightish lines might be a simple problem because of the generally controlled scope of our project(being on a track). The curves of the track may or may not be a larger problem, needs to be tested.

-Ben Dunkerton- Powering the nano on the car needs to be looked into.

-Marshall - An apple laptop is needed to flash our React App to an iphone

-Lars - I can run faster than the car at max speed.

-Darron - How do we use the data after "lane detection" to control the car?

-Kevin Scanlon- How do we port the camera data into our program so it's usable.

-Darrshen - How can we filter out "noise" from our camera