Group: Sean Meyer, Scott Meyer, Ameen Sassi, Andrew Bentley

Introduction:

Overview of System:

Challenges: One of the main challenges was getting the sensors set up and getting them all working together.

Proposed Algorithms:

Our system for the car was designed in two separate parts. The first is the actual code that runs the motors, gets data from the sensors, and converts the information. The second is the pathfinding algorithm that helps the car keep track of its location in the track and find the quickest path to the end. The pathfinding algorithm is built in Python. It is built on the idea that the map can be split up into 1 foot by 1 foot sections. It uses a text file that contains an adjacency map that lists each section and what is connected to it.

Evaluation and Results:

Lessons Learned

Conclusion:

Setup of Car:

Video URL:

Division of Work:

Sean: Development of the Driving algorithm, Setting up the sensors

Scott: Development of the Driving algorithm, Setting up the sensors

Ameen: Development of the pathfinding algorithm, Initial setup of the car

Andrew: Assist with the development of the pathfinding algorithm, create the report