Progress Report Week 3
Professor Montella
Driverless Car Group
9/18/20

Weekly Report

Name	Hours Worked	Activities in current week	Planned Activities for next week
Olivia	3	Started watching robotics lectures from Prof Montellas class this semester Formed a new, more directed plan going forward	New plan: learn about trajectory roll out, and apply it to a point mass model (eventually ackermann. Tasks: code to generate trajectories, code to score trajectories, and a controller
Wes	3	Relearned solid works and modeled most of the sensors/parts and the baseplate	Finish and submit the baseplate to be cut at lehigh. Order parts required and start to figure out how to replace the motor properly.
Walker	<1	ORB-SLAM research	Install orbslam and test, assemble computer & kinect for testing
Kingsley	3	Researched Q-learning and its different variations and their applications, benefits, and drawbacks, and how to implement them. Found several sources using Q-learning in a simple cat-mouse-cheese maze scenario, to base my own version off of.	Implement the cat-mouse-cheese Q-learning example found in the sources this week. Learn how to apply Q-learning to a car following a path which relates more to the final goal.

Team Accomplishments	- Everyone is diving into our respective tasks, learning a lot more and making progress towards our goals
Current Issues/Challenges and Remediation Plan	- n/a
Planned accomplishments	- Kingsley will finish the cat-mouse-cheese Q-learning

in next week	program. - Wes will have the baseplate model finished