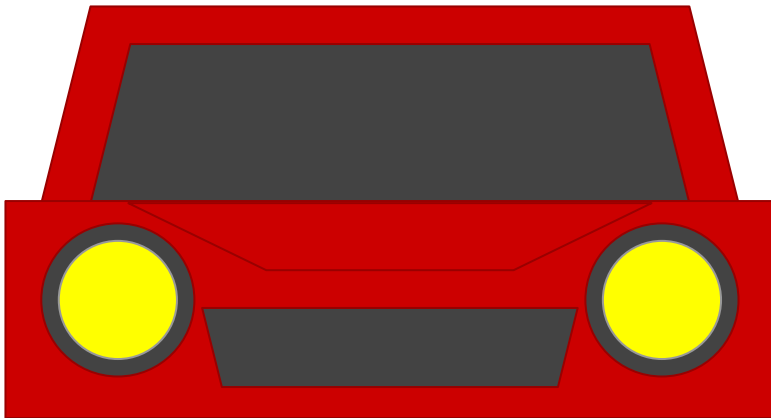


John Vitali  
Brennan Pike  
Isaya Danice

## Collaborative Control Of Autonomous Cars

# Milestone 5 Report

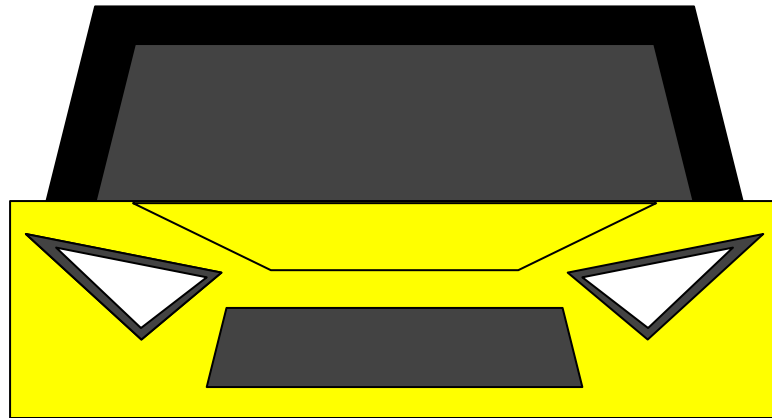


# Overall Progress

Adjustments to Local Planner for Collaborative Control - 80%

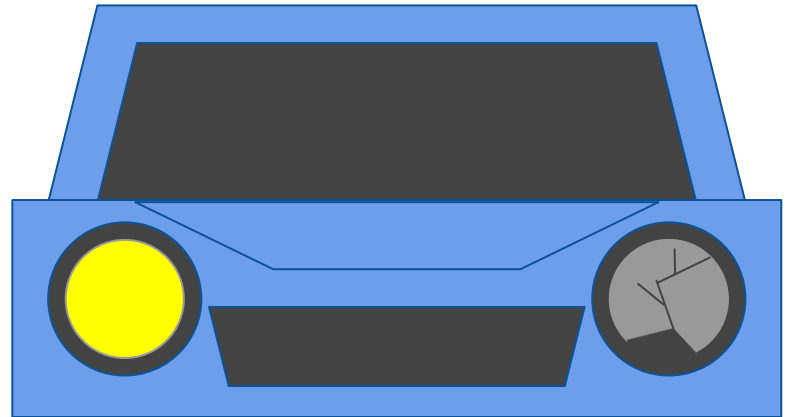
Logitech Steering Wheel Haptic Feedback - 100%

Scenarios Implementation using RoadRunner - 80%



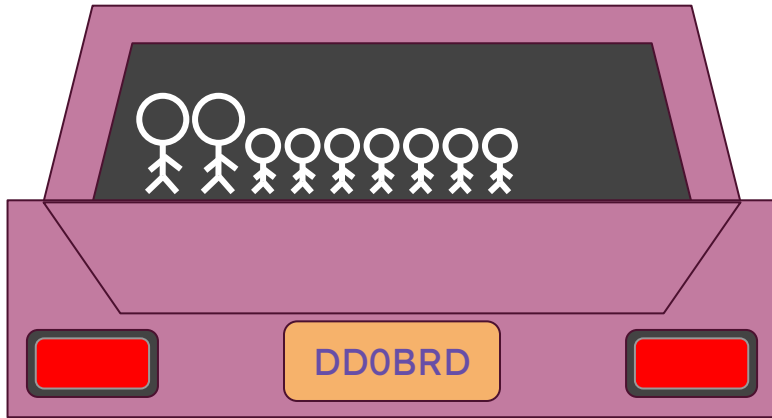
# Adjustments to Local Planner

- Unexpected error resolved
- Changes work as expected; more testing needed
  - Testing with global planner and adjustment for stop lights



# Steering Wheel Haptic Feedback

- Steering wheel force resistance has been added
  - Waiting on feedback from users to determine if it is too strong/not strong enough
- Attempting to add feedback based on the terrain the car is on
  - Smooth is little resistance, bumpy is more



# Map creation Using RoadRunner

- Custom map implementation is complete:
  - Exporting map to Carla was successful.
  - Rebuild of the Carla system required each time a map is exported.
  - Errors in custom maps are only detectable when rebuilding Carla.
- Map entailments:
  - Highway, roundabout, Intersections.
  - Roads with different elevations and a lot of turns.
  - Trees on roadsides.



# Map creation using RoadRunner





# Buildings





# Minor issues

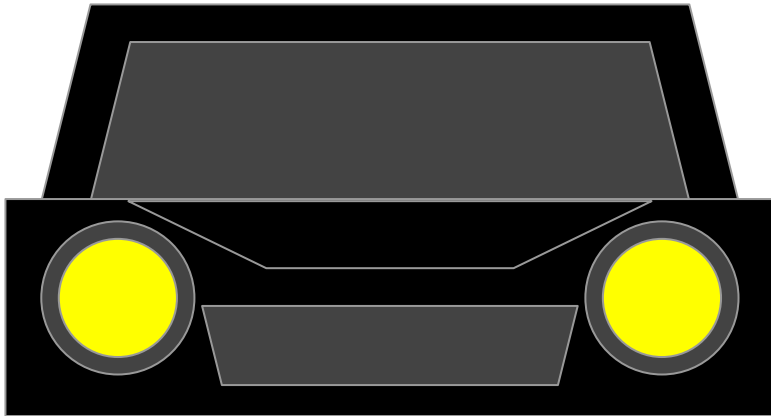


# Minor Issues



# Plans For Next Milestone

- Final adjustments to local planner
- Implementation of terrain-based feedback
- Scenario implementation
- Putting it all together



Questions?

