About Us

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Project Overview

- Develop a smart city intersection simulation
  - 120th and Broadway
  - 120th and Amsterdam
- Simulation is a testbed for self-driving research
- Emulate human driving via traffic simulator
Methodology & Equipment

- SUMO - Simulation of Urban MObility
- Gazebo - Robotics Simulator
- ROS - Robot Operating System (Melodic)
Physical Model Intersection
Gazebo Model Intersection
Sumo Model Intersection + Traffic Model
Results
Next Steps

- Incorporate the Self-Driving Car’s vehicle into our simulated world
- Incorporate street parking and pedestrians into traffic model
- Set up working Gazebo traffic lights
Acknowledgements

- Jenny Shane
- Ivan Seskar
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- https://hal.inria.fr/hal-01872095/document
- https://bitbucket.org/marioney/hybrid_simulation/src/master
- https://github.com/osrf/car_demo