

Collaborative Control for Autonomous Cars

Brennan Pike
John Vitali
Isaya Danice

Semester Goal

- Make ScenarioRunner and all of the scenarios work as intended and consistently
- Finish any small revisions needed on the Collaborative Control code
- Finish up small “nice to have items”
 - Side mirror & rear view mirror cameras

Milestone 4

- Refining Collaborative control
 - Adjustment on autopilot algorithm dealing with turns and intersections
- Adding rear view and side mirror cameras
- Testing algorithm adjustments using ScenarioRunner

Milestone 5

- Begin human simulation testing in different scenarios
 - Implement new scenarios or make code adjustments if necessary
- Data collection and analysis
- Create e-book page & poser

Milestone 6

- Continue with human simulation testing.
- Data collection and Analysis.
- Create User/Developer Manual

Task Matrix

| Task | Brennan | John | Isaya |
|-----------------------------------|-------------------------------|---|--|
| Collaborative control refinements | Turns and Intersections (70%) | Other Adjustments (15%) | Testing and Demo (15%) |
| Side & Rear view mirror cameras | Fine Tuning (15%) | Create screen pop-up & add camera views (70%) | Testing and Demo (15%) |
| Scenarios testing | Other Adjustments (15%) | Other Adjustments (15%) | Testing all components and algorithm refinements (70%) |