UDACITY

< Back to Self-Driving Car Engineer

Kidnapped Vehicle

REVIEW

CODE REVIEW 3

HISTORY

Meets Specifications

Brilliant Udacity Learner,

Congratulations! 🎉
This work is very impressive and well implemented. I am glad I was able to review it. Codes were clearly written and well structured. The effort and determination you exerted on this project was really commendable. Moreover, the project meets all the project specifications on its initial submission which is really great and could earn a nomination for excellence.

Receiving a feedback has been always a pleasure, so please comment after rating. You could include the challenges and difficulties you have encountered in making the project. You might also include the points you have learned or any insights about the project. 😊

Once again I commend your hard work and commitement. Just keep up the good work and stay AWESOME and DACIOUS. 👍🏽 👍🏽

Advance Learning Tips

The links below consist of resources which I believe will expand your knowledge more about this project. Feel free to check it out:

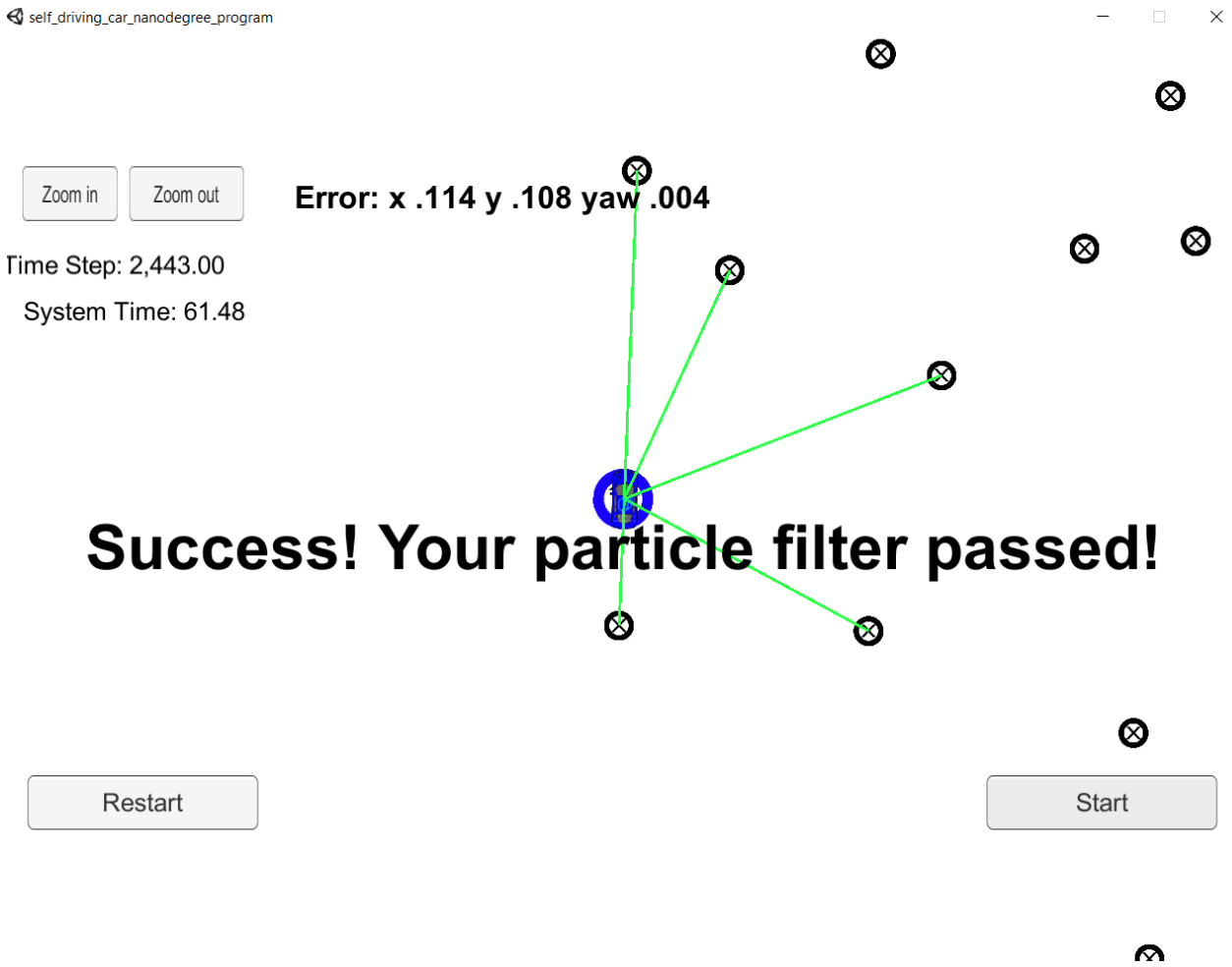
- Particle Filter in Robotics.
- Vehicle tracking using projective particle filter.
- Overlapped Vehicle Tracking via Enhancement of Particle Filter with Adaptive Resampling Algorithm.

- Unscented Kalman filters and Particle Filter methods for nonlinear state estimation.

Accuracy

This criteria is checked automatically when you do ./run.sh in the terminal. If the output says "Success! Your particle filter passed!" then it means you've met this criteria.

Impressive work has been done on implementing a particle filter algorithm to track the location of a kidnapped vehicle. The simulator produced cumulative mean errors for `x`, `y` and `yaw` of **[0.114, 0.108, 0.004]** respectively, showing a logical and an efficient implementation of the particle filter algorithm. Great job! 👏



Performance

This criteria is checked automatically when you do ./run.sh in the terminal. If the output says "Success! Your particle filter passed!" then it means you've met this criteria.

Well done! The run-time specification of this project was well met and the simulator displayed the message **"Success! Your particle filter passed!"**.

General

There may be ways to “beat” the automatic grader without actually implementing the full particle filter. You will meet this criteria if the methods you write in particle_filter.cpp behave as expected.

I can confidently say that the implementation of the methods in `particle_filter.cpp` are correctly implemented and did behave accordingly. Impressive! 👍

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3 CODE REVIEW COMMENTS ›

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