1/10/2018 Udacity Reviews





PROIECT

PID Controller

A part of the Self-Driving Car Engineer Program

PROJECT REVIEW

CODE REVIEW 2

NOTES

SHARE YOUR ACCOMPLISHMENT! 🏏 🚮

Requires Changes

1 SPECIFICATION REQUIRES CHANGES

Good job implementing the PID controller. There is one small thing to fix in the code itself.

You are almost there. Keep up the good work.

Also, in future submissions, please submit only the project (i.e. PID project only) and not repository with all your work on the nanodegree so far.

Compilation

Code must compile without errors with cmake and make.

Given that we've made CMakeLists.txt as general as possible, it's recommend that you do not change it unless you can guarantee that your changes will still compile on any platform.

Your code complied without any errors!

Implementation

It's encouraged to be creative, particularly around hyperparameter tuning/optimization. However, the base algorithm should follow what's presented in the lessons.

 $Great\ job\ with\ your\ implementation\ of\ the\ controller.\ You\ have\ initialized\ error\ vars\ to\ 0.1,\ 0.001,\ 0.1.\ This\ is\ incorrect\ implementation\ because\ these\ should\ be\ calculated\ from\ cte$ values only. Please init error vars to zero and I'm sure your code with work and you will pass this project.

Reflection

Student describes the effect of the P, I, D component of the PID algorithm in their implementation. Is it what you expected?

Visual aids are encouraged, i.e. record of a small video of the car in the simulator and describe what each component is set to.

All aspects of the PID controller are discussed and explained. Excellent!

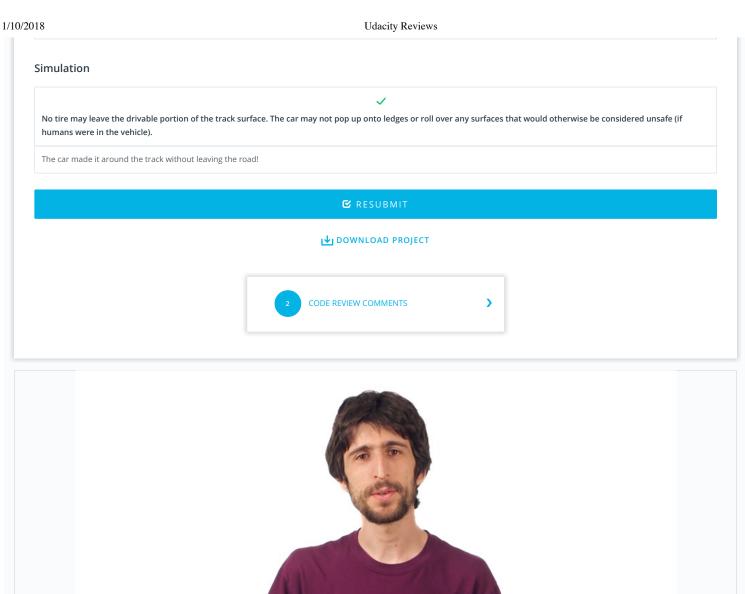


Student discusses how they chose the final hyperparameters (P, I, D coefficients). This could be have been done through manual tuning, twiddle, SGD, or something else, or a combination!

Great job describing how you tuned your parameters!

Here is another resource to learn more about other tuning methods!

 $https://udacity-reviews-uploads.s3. a mazonaws.com/_attachments/41330/1493863065/pid_control_document.pdf$



UDACITY Best practices for your project resubmission

Ben shares 5 helpful tips to get you through revising and resubmitting your project.

• Watch Video (3:01)

Student FAQ