

PROJECT

3D Perception

A part of the Robotics Software Engineer Program

PROJECT REVIEW
CODE REVIEW 1
NOTES

SHARE YOUR ACCOMPLISHMENT! 🏏 🚮 **Meets Specifications**

Congratulations on successfully completing this project. You certainly did a *good job*. U

Advanced tips:

- Object detection using deep learning
- Object Classification with 3D cloud and CNN
- Volumetric Shapes
- PointNet

Some fun application

Writeup

The writeup / README should include a statement and supporting figures / images that explain how each rubric item was addressed, and specifically where in the code each step was handled. The writeup should include a discussion of what worked, what didn't and how the project implementation could be improved going forward.

Your writeup is very well structured and documented. It looks good and addresses well to each and every rubric point well. Good job in putting up such a wonderful report.



Exercise 1, 2 and 3 Pipeline Implemented

The pcl_callback() function within the template Python script has been filled out to include filtering and RANSAC plane fitting. Not required, but to help your reviewer consider adding screenshots of output at different steps in your writeup with brief explanations.

pcl_callback() function block is very well implemented.

Steps for cluster segmentation have been added to the pcl_calback() function in the template Python script. Not required, but to help your reviewer consider adding screenshots of output at different steps in your writeup with brief explanations.

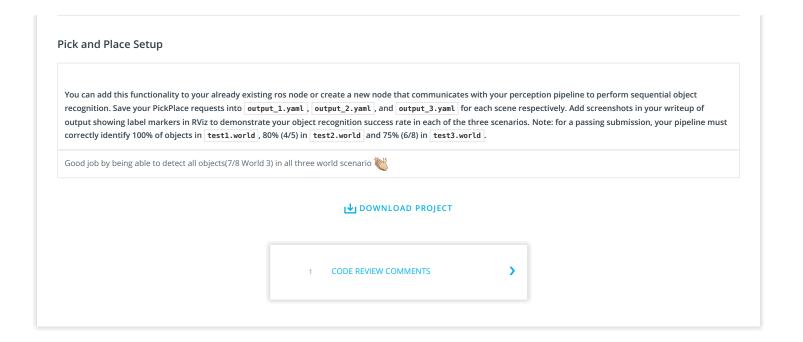
Cluster segmentation is well executed.



Both compute_color_histograms() and compute_normal_histograms() functions have been filled out and SVM has been trained using train_svm.py . Please provide a snapshot of your normalized confusion matrix (output from train_svm.py in your writeup / README. Object recognition steps have been implemented in the pcl_callback() function within template Python script. Not required, but to help your reviewer consider adding screenshots of output at different steps in your writeup with brief explanations.

Both compute_color_histograms() and compute_normal_histograms() functions were filled with codes to return normalized feature vectors .Nice work 😝





RETURN TO PATH

Student FAQ