My Programs ► Camera Based 2D Feature Tracking ► Submit Project

# Project: Camera Based 2D Feature Tracking

#### Submission Results

Sulumission Date: July 16, 2019



Sulumission Passed

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#### Feedback Details

Specification Review Code Review

#### Reviewer Note

Nice work, Congratulations on completing this project. You nailed it. 🖔 🏂 The code and reasoning showcased in your work shows a good understanding of the concepts in the lessons. Keep up the good work as you proceed. All the best! :udacious:

## Check out the following for further learning.

Cameras in Processing (2D and 3D) What is the best feature to track an object in video seguences? How to Detect and Track Object With OpenCV Camera Tracking for Augmented Reality Media

### Mid-Term Report

✓ MP.0 Mid-Term Report

Nice job with the writeup in writeup.md examining how each rubric was handled. Good work!

Provide a Writeup / README that includes all the rubric points and how you addressed each one. You can submit your writeup as markdown or pdf.

## Data Buffer

✓ MP.1 Data Buffer Optimization

You have correctly implemented a vector for dataBuffer objects whose size does not exceed a limit. That's neat!

Implement a vector for dataBuffer objects whose size does not exceed a limit (e.g. 2 elements). This can be achieved by pushing in new elements on one end and removing elements on the other

# Keypoints

- ✓ MP.3 Keypoint Removal
- MP.2 Keypoint Detection

Reviewer Note

Good work for this one. You have implemented detectors HARRIS, FAST, BRISK, ORB, AKAZE, and SIFT and make them selectable by setting a string accordingly. This is really a good job. as computational performance is has been keeped up! Nice work!!

Implement detectors HARRIS, FAST, BRISK, ORB, AKAZE, and SIFT and make them selectable by setting a string accordingly.

## Descriptors

- MP.4 Keypoint Descriptors

1	mplement FLANN matching as well as k-nearest neighbor selection. Both methods must be selectable using the respect ve strings in the main function.
Performance	
<b>Ø</b>	MP.8 Performance Evaluation 2
<b>②</b>	MP.9 Performance Evaluation 3
	Reviewer Note  Perfect work! Leg the time it takes for keypoint detection and descriptor extraction. Your recommended FAST-ORB detector descriptor combination is clearly the one that outstands!

Log the time it takes for keypoint detection and descriptor extraction. The results must be entered into a spreadsheet and based on this data, the TOP3 detector / descriptor combinations must be recommended as the best choice for our purpose of detecting keypoints on vehicles.

MP.7 Performance Evaluation 1

MP.5 Descriptor Matching

Reviewer Note

You have perfectly implement FLANN matching as well as k-nearest neighbor selection. Good workl