**Project 1: Finding Lane Lines on the Road**

* <https://stackoverflow.com/questions/21324950/how-to-select-the-best-set-of-parameters-in-canny-edge-detection-algorithm-imple>
* <http://docs.opencv.org/3.0-beta/doc/py_tutorials/py_imgproc/py_houghlines/py_houghlines.html>
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* <https://stackoverflow.com/questions/36598897/python-and-opencv-improving-my-lane-detection-algorithm>

**Project 2: Traffic Sign Classification**

* <https://arxiv.org/pdf/1502.03167.pdf>
* <https://www.tensorflow.org/api_docs/python/tf/nn/batch_normalization>
* <http://jmlr.org/papers/volume15/srivastava14a/srivastava14a.pdf>
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**Project 3: Use Deep Learning to Clone Driving Behavior**

* <https://elitedatascience.com/overfitting-in-machine-learning>
* <https://keras.io/regularizers/>
* <https://machinelearningmastery.com/adam-optimization-algorithm-for-deep-learning/>
* <http://ruder.io/optimizing-gradient-descent/index.html>
* <https://devblogs.nvidia.com/deep-learning-self-driving-cars/>
* <https://github.com/commaai/research/blob/master/train_steering_model.py>
* <http://alexlenail.me/NN-SVG/LeNet.html>

**Project 4: Advanced Lane Finding**

* <http://programmingcomputervision.com/downloads/ProgrammingComputerVision_CCdraft.pdf>
* <http://diml.yonsei.ac.kr/papers/Real-time%20Illumination%20Invariant%20Lane%20Detection%20%20for%20Lane%20Departure%20Warning%20System.pdf>
* <https://towardsdatascience.com/robust-lane-finding-using-advanced-computer-vision-techniques-mid-project-update-540387e95ed3>
* <https://medium.com/@heratypaul/udacity-sdcnd-advanced-lane-finding-45012da5ca7d>
* <https://medium.com/@heratypaul/experiment-using-deep-learning-to-find-lane-lines-c668a6e42070>
* <https://medium.com/@ajsmilutin/advanced-lane-finding-5d0be4072514>

**Project 5: Vehicle Detection and Tracking**

* <https://www.embedded-vision.com/using-convolutional-neural-networks-image-recognition>
* <https://www.wolfib.com/Image-Recognition-Intro-Part-1/>
* <https://www.datacamp.com/community/tutorials/deep-learning-python>

**Project 6: Extended Kalman Filters**

* <https://www.sciencedirect.com/science/article/pii/S0959152407001655>
* <https://robotics.stackexchange.com/questions/9233/uncented-kalman-filter-for-dummies>
* <https://www.mathworks.com/matlabcentral/fileexchange/18217-learning-the-unscented-kalman-filter?w.mathworks.com>

**Project 7: Unscented Kalman Filters**

**Project 8: Kidnapped Vehicle**

* <http://robots.stanford.edu/papers/thrun.pf-in-robotics-uai02.pdf>

**Project 9: PID Controller**

* <http://oa.upm.es/30015/1/INVE_MEM_2013_165545.pdf>
* <https://www.cds.caltech.edu/~murray/courses/cds101/fa02/caltech/astrom-ch6.pdf>
* <https://www.novatechweb.com/wp-content/uploads/2011/03/PID_Tuning_Guide_022810.pdf>
* <http://f1tenth.org/session2#l1-3>
* <https://github.com/mithi/robotics-coursework>

**Project 10: Model Predictive Control (MPC)**

**Project 11: Path Planning**

* <http://ais.informatik.uni-freiburg.de/teaching/ss10/robotics/slides/16-pathplanning.pdf>
* <https://wesscholar.wesleyan.edu/cgi/viewcontent.cgi?referer=&httpsredir=1&article=1856&context=etd_hon_theses>
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* <https://www.cs.swarthmore.edu/~newhall/unixhelp/howto_makefiles.html>
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**Project 12: Semantic Segmentation**

* <http://blog.qure.ai/notes/semantic-segmentation-deep-learning-review>
* <https://arxiv.org/abs/1704.06857>
* <http://mi.eng.cam.ac.uk/projects/segnet/demo.php#demo>
* <http://www.robots.ox.ac.uk/~szheng/crfasrnndemo>

**Project 13: Functional Safety of a Lane Assistance System**

**Project 14: Programming a Real Self-Driving Car**