

Self Driving Car Engineer Nanodegree

Weekly Outline

	Week #	Material to Cover
Term 1	First Day	<ul style="list-style-type: none"> Welcome! Join Study Group Check-out Knowledge
	Week 1	<ul style="list-style-type: none"> Workspaces Computer Vision Fundamentals
	Week 1	Project 1: Finding Lane Lines
	Week 2	<ul style="list-style-type: none"> Camera Calibration Gradients and Color Spaces Advanced Computer Vision
	Week 3	Project 2: Advanced Lane Finding
	Week 4	<ul style="list-style-type: none"> Neural Networks
	Week 5	<ul style="list-style-type: none"> TensorFlow
	Week 6	<ul style="list-style-type: none"> Deep Neural Networks Convolutional Neural Networks LeNet for Traffic Signs
	Week 7	Project 3: Traffic Sign Classifier
	Week 8	<ul style="list-style-type: none"> Keras Transfer Learning
	Week 9	Project 4: Behavioral Cloning
	Week 10	<ul style="list-style-type: none"> Sensors Kalman Filters
	Week 11	<ul style="list-style-type: none"> C++ Checkpoint
	Week 12	<ul style="list-style-type: none"> Extended Kalman Filters
	Week 13	Project 5: Extended Kalman Filter
	End of Term	
	Term Break	<ul style="list-style-type: none"> Github Lesson Geometry and Trigonometry Refresher

	Week #	Material to Cover
Term 2	First Day	<ul style="list-style-type: none"> Welcome!
	Week 1	<ul style="list-style-type: none"> Intro to Localization Markov Localization Motion Models
	Week 2	<ul style="list-style-type: none"> Particle Filters Implementation of a Particle Filter
	Week 3	Project 1: Kidnapped Vehicle Project
	Week 4	<ul style="list-style-type: none"> Search Prediction
	Week 5	<ul style="list-style-type: none"> Behavior Planning
	Week 6	<ul style="list-style-type: none"> Trajectory Generation
	Week 7	Project 2: Highway Driving
	Week 8	<ul style="list-style-type: none"> PID Control Github Lesson (in Term 1)
	Week 9	Project 3: PID Controller Project Project 4: LinkedIn Profile Project Project 5: Github Profile Project
	Week 10	<ul style="list-style-type: none"> Autonomous Vehicle Architecture Intro to ROS
	Week 11	<ul style="list-style-type: none"> Packages and Catkin Workspaces Writing ROS Nodes
	Week 12	Project 6: Program an Autonomous Vehicle
	Week 13	Project 6: Program an Autonomous Vehicle (Continued)
	End of Term	Graduate!