Working Weeks	1	2	2 3	4	5	1 6	7	1	9	10 11 1	2 13	14 15 16	17
Start of the week	22-Nov	29-Nov	6-Dec	13-Dec	20-Dec	27-Dec	3-Jan	10-Jan	17-Jan	24-Jan 31-Jan 7-Feb	14-Feb	21-Feb 28-Feb 7-Mar	14-Mar
Sensing and input package	Documentation on the given guides and projects. Chose main languages Rust, Python and technologies: Jetson Nano with Intel Realisense Create/adapt project plan Members tasks asignation	Vehicle Calibration	Implement Streaming and Persistence of Sensor Data	Camera handling		Define other necessary sensors, define use-case, integration (IMU, distance), preprocessing, noise cancelling							e cancelling.
					Camera	Callibration	Define use-case and test given servers information (localisation on map, cars interaction, gps interaction)						
							Implement Aditional Servo Motor for Camera Rotation						
Perception and scene understanding package			Research, Design and Test Lane Detection Solution	Define information being sent to the brain for the decision making		Lane detection and intersection of		detection (basic road detection)		Environmental detection			
				Preprocessing, noise		se cancelling, ROIs definition				Traffic signs detection &	classification	Traffic lights detection & cl	lassification
				Research, Design						Environmental server interaction			
				and Test Traffic Sign Detection Solution	Implement	and Test Traffic Sign Detect	on Solution			Define objects properties file		server interaction	
Behaviour and decision making package			Research and Define Planning Architecture (Global / Behaviour / Local Planning)							Define path planning and validation		5.5.1.1.1.1.1	
				Establish rudimentary lane Tracking algorithm			Dynamic Lane following			Define robustness and safety measure Define decision making -> priorities of actions and state flow			
									Intersection naviga	ation			
Vehicle control and motion plan packages			Define Control System Architecture	Speed Low Level Contro		ow Level Control		PID Tuning				Simple action taking maneuvers (parking,	
				Lateral Low Level Control								stop for traffic sign, stop for traffic light, stop for pedestrian)	
Final result & Demo	Team can control the physical car remotely	Vehicle has full software package installed and configured for data gathering and control					Robot can keep a lane, can make a curve on testing track				Robot can go on a pre-determined path, stop at stop sign, park at parking sign, slow at crosswalk		
			Robot can keep a lane, can make	a curve in simulation. Perception, Sensor Fusion and C in real time using multiprocessing.		and Decision making all run	Team defines and creates it's own physical testing environment						
										Team defines a way of parallel de			
Deadlines				16-Dec					20-Jan		17-Feb		17-Mar
Checkpoint				1st report	Christm	as break			2nd report		3rd report		Mid-term quality gate