

This document presents a rough proposal for the directory tree in the Autoware.AI repository. It organizes the packages in the repository based on its capability, module and internal component, according to its application in an autonomous vehicle.

Need to update: <https://github.com/CPFL/Autoware/wiki/Overview>

	Capability	Module	Component	Component Directory	Package Type	Package	Package Directory	Node
Autoware	ros							
	src							
	Data							
		README.md, design.md						
		maps						
		points_map						
			packages					
				core		points_map_loader		
				lib		points_map_wizard		
			vector_map					
			packages					
				core		vector_map_loader		
				lib		vector_map_wizard		
	Sensing							
		README.md, design.md						
		drivers						
		lidar						
			packages					
				core		lidar_launcher	(container for launch files, external dependencies) README.md, design.md, CMakelists.txt, package.xml, LICENSE, rosdod.yaml launch	
							velodyne heisai robosense innoviz oustler hokuyo	
			submodules					
				core		velodyne heisai robosense innoviz oustler hokuyo	(moved now as a dependency: http://wiki.ros.org/velodyne) (WIP, will add once we receive the sensor ETA April 2019) (https://github.com/CPFL/robosense , trying to push to upstream https://github.com/RoboSense-LIDAR/roslidar/pull/6) (WIP, no ETA) (https://github.com/CPFL/oustler PR to upstream closed https://github.com/comaster-lidar/oustler_example/pull/19) (planned to be taken out as dependency, push updates to upstream repos: http://wiki.ros.org/hokuyo_node ; http://wiki.ros.org/hokuyo3d) No Melodic support	
		camera						
			packages					
				core		camera_launcher	(container for launch files, external dependencies) README.md, design.md, CMakelists.txt, package.xml, LICENSE, rosdod.yaml launch src	
							spinnaker_camera flycapture_camera baumer_camera	This might help to remove both (spinnaker and flycapture) https://github.com/ros-drivers/fliir_camera_driver/tree/kinetic-devel/spinnaker_camera_driver
							include/camera_launcher test	
			lib			spinnaker		
							README.md, design.md, CMakelists.txt, package.xml, LICENSE, rosdod.yaml launch src	
							spinnaker	
							include/spinnaker test	
						baumer		
							README.md, design.md, CMakelists.txt, package.xml, LICENSE, rosdod.yaml launch src	
							baumer	
							include/baumer test	
						flycapture		
							README.md, design.md, CMakelists.txt, package.xml, LICENSE, rosdod.yaml launch src	
							flycapture	
							include/flycapture test	
		radar						
		imu						
		gnss						
			packages					
				core		gnss_launcher	(container for launch files, dependencies) README.md, design.md, CMakelists.txt, package.xml, LICENSE, rosdod.yaml launch	
							serial	
			lib					
	calibration	can						
		camera_intrinsics						
			packages					
				core		camera_calibrator		
							README.md, design.md, CMakelists.txt, package.xml, LICENSE, rosdod.yaml launch src	
							monocular_calibrator stereo_calibrator	
							include/camera_calibrator test	
		camera_lidar_extrinsics						
			packages					
				core		camera_lidar_calibrator		
							README.md, design.md, CMakelists.txt, package.xml, LICENSE, rosdod.yaml launch src	
							camera_lidar_calibrator	
							include/camera_lidar_calibrator test	
		multi_lidar_extrinsics						
			packages					
				core		multi_lidar_calibrator		
							README.md, design.md, CMakelists.txt, package.xml, LICENSE, rosdod.yaml launch src	
							multi_lidar_calibrator	
							include/multi_lidar_calibrator test	
		radar_lidar_extrinsics						
			packages					
				core		radar_lidar_calibrator		
							README.md, design.md, CMakelists.txt, package.xml, LICENSE, rosdod.yaml launch src	

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[illegible]

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