

Task			Assignment	Duration	15 week													Rõ ràng	Chủ quan/Khách quan	Châm tiên độ	Biện pháp	Ghi chú	Công việc				
1	GENERAL LAYOUT DESIGN				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17						
1.1	Localization	Thanh	1/1	22/12																			Thấp			2.1	
1.2	Perception	Lộc	1/1	22/12																			Trung			2.2	
1.3	Planning	Châu	1/1	22/12																			Thấp			2.3	
1.4	Control	Chí	1/1	22/12																			Thấp			2.4	
1.5	Simulator	Thanh	1/1	22/12																			Thấp			2.5	
2	DETAILED DESIGN				1. GENERAL LAYOUT DESIGN													2. DETAILED DESIGN						3			
2.1	Localization																										
	2.1.1	Data processing from GPS	Thanh	27/1																				Thấp			3.1
	2.1.2	Data processing from IMU	Thanh	28/1																				Trung			
2.2	Perception																										
	2.2.1	Design Object Detection Algorithm	Lộc	24/1																				Thấp			3.2
	2.2.2	Design Lane Detection Algorithm	Lộc	29/1																				Thấp			
2.3	Planning																										
	2.3.1	Designing a car following algorithm adjacent nodes	Châu	20/1																				Thấp			3.3
	2.3.2	Designing an algorithm to go through all the nodes (Greedy) [Input: any nodes, output: path shortest path through all nodes]	Châu	20/1																				Thấp			
2.4	Control																										
	2.4.1	Calib Servo	Lộc-Thanh	1/2																				Thấp			3.4
2.5	Simulator																										
	2.5.1	Prepare virtual data from the Gazebo platform	Thanh	28/1																				Thấp			3.5
	2.5.2	How to export data so that embedded computers can use it	Thanh	2/1																				Thấp			
3	DETAILED PROCESSING				3.1. Localization													3. DETAILED PROCESSING						4			
3.1	Localization				- Write code to transmit data from IMU to embedded computer	Thanh	28/1																	Thấp			4.1
	3.1.1	- Write code to transmit data from IMU to embedded computer	Thanh	28/1	22/12																			Thấp			
3.2	Perception				3.2. Perception													3.2. Perception									
	3.2.1	- Camera calibration (Anti-distortion)	Lộc	10/1	8/1																		Thấp			4.2	
	3.2.2	- Stream camera to screen	Lộc	31/1																			Trung				
3.3	Planning				3.3. Planning													3.3. Planning									
	3.3.1	Car code sticks to adjacent nodes (basic)	Thanh	24/1	22/12																		Thấp			4.3	
	3.3.2	The code is based on the algorithm of going through all the input nodes (Greedy)	Châu	20/1																			Thấp				
4	DETAIL INSPECTION				3.3.2. Test the algorithm through pi camera													4. DETAIL INSPECTION						5			
	Localization				4.1. Localization													4.1. Localization									
	4.1.1	Check the accuracy of the IMU, by rotating around fixed axes	Thanh	12/1	22/12																		Thấp			5.1	
4.2	Perception				4.2. Perception													4.2. Perception									
	4.2.1	Check the accuracy of the Object Detection algorithm on video	Lộc	21/1																			Thấp			5.2	
	4.2.2	Test the algorithm through pi camera	Lộc	2/2																			Thấp				
4.3	Planning				4.3. Planning													4.3. Planning									
	4.4.1	Vehicles follow adjacent nodes [Simulating]	Châu	20/1																			Thấp			5.3	
	4.4.2	Enter any node -> the car runs to eat running out of nodes [Simulating]	Châu	20/1																			Thấp				
5	OVERALL INSPECTION				4.4.2. Overall Inspection													5. OVERALL INSPECTION						6			
5.1	Check the correct operation between the real vehicle and the environment simulation field				1/2																		Thấp			6.1	
5.2	Test the object and lane detection function via the image stream screen from the camera				1/2																		Thấp			6.2	
6	OVERALL INSPECTION IN REAL WORLD				5.2. Overall Inspection in Real World													6. OVERALL INSPECTION IN REAL WORLD						7			
6.1	Compare results against technical requirements				2/2																		Thấp			7.1	