

Task				Assignment	Duration	15 week																	Rủ ro		Chủ quan/Khách quan	Chậm tiến 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. GENERAL LAYOUT DESIGN				2		
1.1	Localization		Thanh	1/1	22/12																					Thấp			2.1
1.2	Perception		Lộc	1/1	22/12																					Thấp			2.2
1.3	Planning		Châu	1/1	22/12																					Thấp			2.3
1.4	Control		Chỉ	1/1	22/12																					Thấp			2.4
1.5	Simulator		Thanh	1/1	22/12																					Thấp			2.5
2 DETAILED DESIGN						2. DETAILED DESIGN																					3		
2.1	Localization																												3.1
	2.1.1	Data processing from GPS	Thanh	27/1			12/1																			Thấp			
	2.1.2	Data processing from IMU	Thanh	26/1			13/1																			Thấp			
	2.1.3	Data processing from Encoder	Châu	27/1			15/1																			Thấp			
2.2	Perception																												3.2
	2.2.1	Design Object Detection Algorithm	Lộc	24/1			10/1																			Thấp			
	2.2.2	Design Lane Detection Algorithm	Lộc	29/1				20/1																		Thấp			
2.3	Planning																												3.3
	2.3.1	Designing a car following algorithm adjacent nodes	Châu	20/1			8/1																			Thấp			
	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			8/1																			Thấp			
2.4	Control																												3.4
	2.4.1	Calib Servo	Lộc-Thanh	1/2				20/1																		Thấp			
	2.4.2	Using BPMC Embedded source	Thanh	1/2			14/1																			Thấp			
2.5	Simulator																												3.5
	2.5.1	Prepare virtual data from the Gazebo platform	Thanh	28/1	2/1																					Thấp			
	2.5.2	How to export data so that embedded computers can use it	Thanh	2/1	22/12																					Thấp			
3 DETAILED PROCESSING						3. DETAILED PROCESSING																					4		
3.1	Localization					3.1. Localization																					4.1		
	3.1.1	- Write code to transmit data from IMU to embedded computer	Thanh	26/1	22/12																					Thấp			
3.2	Perception					3.2. Perception																					4.2		
	3.2.1	- Camera calibration (Anti-distortion)	Lộc	10/1	8/1																					Thấp			
	3.2.2	- Stream camera to screen	Lộc	31/1				29/1																		Thấp			
	3.2.3	- Apply algorithm to raspi 5	Lộc	1/2				30/1																		Thấp			
3.3	Planning					3.3. Planning																					4.3		
	3.3.1	Car code sticks to adjacent nodes (basic)	Thanh	24/1	22/12																					Thấp			
	3.3.2	The code is based on the algorithm of going through all the input nodes (Greedy)	Châu	20/1			14/1																			Thấp			
	3.3.3	Code from the event handling algorithm	Châu	25/1			15/1																			Thấp			
4 DETAIL INSPECTION						4. DETAIL INSPECTION																					5		
4.1	Localization					4.1. Localization																					5.1		
	4.1.1	Check the accuracy of the IMU, by rotating around fixed axes	Thanh	12/1	22/12																					Thấp			
4.2	Perception					4.2. Perception																					5.2		
	4.2.1	Check the accuracy of the Object Detection algorithm on video	Lộc	21/1				20/1																		Thấp			
	4.2.2	Test the algorithm through pi camera	Lộc	2/2				26/1																		Thấp			
4.3	Planning					4.3. Planning																					5.3		
	4.4.1	Vehicles follow adjacent nodes [Simulating]	Châu	20/1			13/1																			Thấp			
	4.4.2	Enter any node -> the car runs to eat running out of nodes [Simulating]	Châu	20/1			13/1																			Thấp			
5 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						6. OVERALL INSPECTION IN REAL WORLD																					7		
6.1	Compare results against technical requirements			2/2																						Thấp			7.1