Quest Rubric No: 5		5		

Objective criteria (0/1, 1=met)	Rating	Max	Comments	
Controls steering to maintain center of course +/- 25cm for entire length	1	1	Very short course. Uses buggy	
Uses PID for speed control holding a fixed speed setpoint after startup and before slowdown [0.1-0.4 m/s]	0.5	1	Not really a PID. Using the loop but not affecting control in proportion to error.	
Stops within 20 cm of end without collision	1	1		
Start and stop instructions issued wirelessly from phone, laptop or ESP)	1	1		
Measures wheel speed or distance	1	1		
Uses alpha display to show current distance or speed	1	1		
Successfully traverses A-B in one go, no hits or nudges	1	1		
Total objective criteria	6.5	7		

Qualitative criteria	Rating	Max	Comments	
Quality of solution	4	5	Drives backwards. Using wrong ESC initialization code.	
Quality of report.md including use of graphics	3	3	Prefer some sketches of your software or hardware components	
Quality of code reporting	3	3		
Quality of video presentation	2	3	Demo-oriented. Could improve with PPT type images	
Total qualitative criteria	12	14		

Quant Weight (75)	70	75	
Qual Weight (25)	21	25	
Total Score	91	100	
Rank (1-5)	3	5	

Comments

ESC does not appear to be calibrated properly which probably led to some head scratching.