

Challenge 8 Rubric:
Autonomous

What the scores mean

General (0-5, 5 is highest)	Rating	Max	0	1	2	3	4	5
Quality of solution		5	Nonfunctional	Some elements missing or nonfunctional, unreliable	Meets requirements, but possibly flaky performance	Meets requirements and performs function as specified. Robust	Exceeds requirements. Evidence of solution going beyond baseline.	Well thought out, design decisions supported; extensible for future challenges
Quality of written presentation		3	Not posted	Lack of depth on content. Just repeating the assignment statement.	Evidence of technical knowledge and challenges solved shown above baseline	Clear, concise, complete, articulate. Depth of technical discourse.		
Quality of code management on github		3	Not posted	Little or no management	Average	Exceptional. Show branching, merging, commits		
Quality of oral presentation (presenter only)		3	Not posted	Long, disorganized, incomplete, incoherent	Average	Clear, concise, complete, articulate		
Quality of video		3	Not posted	Long, disorganized, incomplete, incoherent	Average	Clear, concise, complete, articulate		

Other qualitative

Integrates beacons for finding waypoints using trilateration and/or knn positioning.		3	No	Tripwires	Plus Trilateration	Plus Knn
Quality of driving, speed, jerkyness		3	Jerky or erratic	Slow but steady	Avg	Fast and steady
Quality of UI at remote terminal including positioning and latency		3	None	Basic UI but control issues or unsuable latency	Avg	Responsive to actual position, able to control car successfully
Evidence of adaptability to other track configurations		1	No	Yes		

Required elements (0/1, 1=met)

PPT, video, link to github provided in single posting		1	No	Yes
Drives without hitting walls between waypoints and is stable within epsilon		1	No	Yes
Successfully makes turns at waypoints.		1	No	Yes
Completes entire course without human intervention in one try (first lap)		1	No	Yes
Car controllable from remote terminal in other location and network (second lap)		1	No	Yes
Position and FPV reported in real time on remote display		1	No	Yes

Total Qualitative	0	27
Total Met Requirements	0	6

Quintile (1/2/3/4/5), 1 is highest		1
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