Minimal Functionality Requirements Checklist Drone Tracker Project

	こうくうこ				
	Fall 2027	Requirement	Requirement Requirement was partially was met met	Requirement was not met	Notes
	RECEIVER SYSTEM		10000000000000000000000000000000000000		
	The arduino receives RID signals from the drone.				
	Will inform when a signal is received by printing the unpacked message.				
	Be able to send a simulated message.	E1/11			
	POWER SYSTEM- RECEIVER				
	The Waveshare module will output 5 V with a tolerance of \pm 5 % at a maximum load of 250 mA and a minimum load of 3 mA.	η,			min tested is 10 mA dre to electrical and limitation
	The Waveshare module will output 3.3 V with a tolerance of ± 5 % at a maximum of	1/11			
	215 mA and a minimum load of 15 mA.	1 tiles			r.
•	The solar panel will induce a current and	N 11/13	July/S/111 /		DMM incorrectly commented for current.
\mathcal{I}	charge the system's battery.				11/13 tested in 166 - Small Current Massices - had
_	POWER SYSTEM- CAMERA				152 Jeloid Las house Guine
ised if	The LRS-50-5 power supply will output 5V with a tolerance of ± 2 % at a maximum load of 3.6 A and a minimum load of 8 mA.	11/5 (Kuntuba)	tolerande met		Tolerance was incorrect (too tight) - cik when upphased.
	The Raspberry Pi 15 W power supply will output 5 V with a tolerance of ± 5 % at a maximum load of 3 A and a minimum load of 2.5 A.	a t,			in space 0.5 A — cannot early test at order currents now
	WEBSITE SYSTEM				

		11/13	<	Receive information from the database.
				CAMERA SYSTEM- SOFTWARE
		"/ ₁₃	<	Be capable of tracking UAS or pilot while in motion with a \pm 10° range of accuracy.
		11/13	(Be capable of capturing images of in-flight UAS or pilots with minimum 1080p x 720p image quality in a RAW, PNG, or JPG image format.
		RCV LOC V "/13	KCV L	Must transmit/receive image/location data with less than 2% packet loss.
			1000	CAMERA SYSTEM- HARDWARE
. *		11/13	\	Be able to forward data package over the network.
		11/13	<	Compare the drone location with the pre- marked geographical location.
ž		El/11	<	Store the extracted information into the database.
		11/13	<	Be able to receive and unpack RID package to extract the necessary information.
· · · · · · · · · · · · · · · · · · ·	Carlo Carlo Carlo		N. Colors	DATABASE SYSTEM
		1//3	<	Toggle to view authorized/unauthorized drones on the map.
		11/13	5	Allow users to authorize a drone for flight
		11/13	<	a panel to the side of the map and allow users to select a drone to view all necessary data
		11/13	<	Display detected drones in their detected position on the Google Maps map.
		11/13	<	Send/Receive data to/from the database

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Send information to the database.
Calculate the pointing angles within 2% accuracy given the location of the camera and location of the object.
Given a desired pulse width, generate an equivalent PWM signal within a 5% accuracy margin.