Initial Apprentice Autonomous Waypoint Flight Test								
DAT	Ξ:							
OBJE • •	A successful autonomous waypo Verify that the Pixhawk 4 will b intervention	Č i						
SUCO	<ul> <li>Aircraft reaches success</li> <li>Aircraft climbs to 50 fee</li> <li>Aircraft holds for 10 see</li> <li>Aircraft climbs to 100 fee</li> <li>Aircraft loiters for 30 see</li> <li>Aircraft maintains altitue</li> <li>Upon reaching waypoin</li> </ul>	ing speed set in QGroun sfully changes to the set as it reaches waypoint conds at waypoint 2 feet as it reaches waypoint econds at waypoints 3 feet as it waypoints 3 feet as it reaches waypoint at waypoints 3 feet between 3 & 4 feet for, Aircraft immediate home waypoint, aircraft	dCoaltitu two nt 3	ap	trol de between proaches p	n waypoints  planned home waypoint		
	Clair Completes mission while	SUPPLII		_		Qoroundoonnoo		
0000	☐ Taranis (fully charged) ☐ Tape ☐ Battery (fully charged, plus spare) ☐ zip-ties							
LOCA	ATION:	TEST SYSTEM: Apprentice				TEST CONDITIONS:		
	-	PROCEDU	RE	S	<b>,</b>			
1. 2.	Complete Preflight Checklist  UAS is ready to fly  Team is briefed on safet  Team is briefed on roles  Final Weather check  Complete Test-specific flight ch	s and objectives						

☐ Create and upload mission plan to pixhawk (must be created on site)

3. Complete Electronics team pre-flight checklist

4. Complete Arming Procedure

5.	Manually take off							
6.	3 31							
	☐ Verify location via map view on QGroundControl							
7.	. Flip the INSERT SWITCH HERE into INSERT SWITCH POSITION to switch the pixhawk into mission mode							
8.								
9.								
	switch the Pixhawk back into manual flight mode							
	10. Manually Land UAS							
	11. Disarm Pixhawk Via QGroundControl							
	12. Flip ESC disarm switch on the Left side of the plane near the cockpit							
	<ul><li>13. Disconnect Battery</li><li>14. Visually inspect for any electronics damage</li></ul>							
14	Visually hispect for any electronics damage							
15. After the last flight disconnect in the following order:								
	Disconnect the battery							
	<ul><li>Turn off Taranis</li><li>Disconnect from QGroundControl</li></ul>							
	☐ Measure battery voltage							
	Assess aircraft for damage							
TEST DATA								
•								
•								
	DEBRIEF							
	Total Elight Times							
-	Total Flight Time:							
-	Battery level pre-test:   - Battery level post-test:   - Power Consumption:							
-	Objectives met:							
	-							
	-							
	The distance of the distance of the little o							
-	Test items that went well:							
	<del>-</del>							
	-							
-	Test Items that did not go well/need to be improved:							
	<del>-</del>							
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