FLIGHT TEST # 1				
DATE:				
- Verify all sensors are f	**		ent rate, stall velocity)	
SUCCESS CRITERIA - Flight proceeds according to the - Flight occurs without any dame - All control surfaces respond as - All flight data correctly display - Electronics behave as expected	age to aircraft expected red and saved in QGroundCon	trol		
	SUPPLIES			
 □ Apprentice □ Taranis (fully charged) □ Battery (fully charged, plus spare) □ Computer to run QGroundControl 		 □ Receiver antenna for computer □ Extra rubber bands □ Tape □ zip-ties 		
LOCATION: TBD	TEST SYSTEM: Apprentice		TEST CONDITIONS:	
PROCEDURES				
☐ UAS is ready to fly ☐ Team is briefed on safe ☐ Team is briefed on role ☐ Final Weather check 2. Have UAS positioned on the re 3. Pilot input full throttle, lifts off 4. Decrease throttle to ~75% 5. Adjust trims on Taranis as need 6. Perform a left/right turn and es	es and objectives nway and climbs straight ahead to ded. (if necessary, land and ad tablish a rectangular pattern, d	~100ft just clevise	es to correct large trim errors)	
 7. Test aircraft response for elevator, rudder, & aileron inputs at ½ and full deflection Visually verify the correct response for each maneuver 8. Slow aircraft to just above minimum controllable speed and re-test control inputs 				

☐ Visually verify the correct response for each maneuver				
9. Perform a stall at a low throttle setting and again with the throttle fully closed				
10. Perform an approach to landing followed by a low pass over the runway and go-around to assess landing				
characteristics				
11. Land the aircraft and check the battery voltage before additional flights				
12. Proceed to Electronics Team Test procedures documents				
☐ Set Cruise speed in QgroundControl based off of Manual Flight information				
13. After the last flight disconnect in the following order: ☐ Disarm Pixhawk via QgroundControl				
Flip ESC power switch to OFF position				
Disconnect the battery				
☐ Turn off Taranis				
☐ Measure battery voltage				
☐ Assess aircraft for damage				
TEST DATA				
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DEBRIEF				
- Total Flight Time:				
- Battery level pre-test: - Battery level post-test: - Power Consumption:				
- Objectives met:				
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- Test items that went well:				
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- Test Items that did not go well/need to be improved:				
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