Test Writer	Sabin Maharjan								
Test Case Name	Throttle and Pitch Set Test Test ID 1								
Description	Communicate with MWC Flip 1.5 Flight Controller using MultiWii Serial	Type:							
	Protocol (MSP) commands to set the throttle and pitch for the drone.								
Name of the Tester	Sabin Maharjan Date May 15, 201								
Hardware Version	N/A Time 8:33 PM								
Required									
	- Intel Edison with breakout board								
	- GPIO Board attached to Intel Edison								
	- MWC Flip 1.5 Flight Controller								
	 WIFI with SSH connection with Edison 2x Mini USB –type B connector 								
	- 4 female-female pin connector								
	- Stake								
	- Rope								
Pre-Requirement	- RC read test								
The Requirement	- Arm/Disarm test								
	- Army Disarm test - Throttle test								
Setup	Connect Mini USB to Console port of the Intel Edison. Connect 4 female-female pin connector from								
- Cottap	serial port (Tx, Rx, Gnd, 5v) of the Flip 1.5 Flight Controller to GPIO Board's Serial Pin heads (Rx, Tx,								
	Gnd, 5v). The blue light on Edison should be on. Red light on Flip 1.5 Controller should be on.								
	Site of the site agree on Education should be on the angle on the site of the								
	Login to Edison using root. Change directory to "Drone/src". Type "make all". The following actions								
	are done under this directory.								
	The minimum throttle value set in multiwii's config.h file is 1220. In the code, the default throttle								
	value is set to 1095. Motor turns at throttle value 1100								
	value is set to 1033. Whotoi turns at timothe value 1100								
For Step 1-4, No Drone battery connection required.									
	For Step 5-8, Done battery connection is required. Remove Propellers from the motors .								
	For Step 9-11, Done battery connection is required. Add Propellers on the motors . The drone should								
	be ties to the stake with the rope and make sure no one is closer to drone than 5ft.								
	Console Command: ./drone move								

Step	Action	Header	Length	Code	Data	CRC	Expected Result	P/F	Comment
		3x(uint8_t)	(uint8_t)	(uint8_t)	4x(uint16_t)	(uint8_t)			
1	Press right	\$M<	16	200	1500 1501 1500	221	Value of pitch goes		
	key				1000		up by 1		
2	Press right	\$M<	16	200	1500 1502 1500	194	Value of pitch goes		
	key after 1				1000		up by 1		
	second								

3	Press left	\$M<	16	200	1500 1501 1500	221	Value of pitch goes	
	key after 1 second				1000		up by 1	
4	Press left	\$M<	16	200	1500 1500 1500	216	Value of pitch goes	
	key after 1 second				1000		up by 1	
9	Keep	\$M<	16	200	1500 1500 1500	varies	The drone takes	
	pressing				[varies with the		off from the	
	up key every				key press]		ground	
	second							
	until							
	drone							
	makes a							
10	lift off. Keep	\$M<	16	200	1500 [varies	varies	The drone moves	
10	pressing	ψivi s	10	200	with the key	varies	forward. (away	
	right key				press] 1500 [from the tester)	
	every				varies with the			
	second until				key press]			
	drone							
	makes a							
	forward							
11	movement	Ċ N A +	16	200	4500 francisco		The dual of the control of the contr	
11	Keep pressing	\$M<	16	200	1500 [varies with the key	varies	The drone moves backward.	
	left key				press] 1500		(towards the	
	every				[varies with the		tester)	
	second				key press]			
	until drone							
	makes a							
	forward							
	movement							