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, 20								
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								
D. D. C. C.	- Rope								
Pre-Requirement	- RC read test								
	- Arm/Disarm test								
Catura	- Throttle test								
Setup Connect Mini USB to Console port of the Intel Edison. Connect 4 female-female pin conne									
	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.								
	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 c	nda tha da	fault throttle						
	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									
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								

Ste	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	
J	key after 1	ŢW.	10	200	1000		up by 1	
	second				1000		ap by 1	
4	Press left	\$M<	16	200	1500 1500 1500	216	Value of nitch goes	
4		ŞIVIS	10	200		210	Value of pitch goes	
	key after 1				1000		up by 1	
	second							
9	Keep	\$M<	16	200	1500 1500 1500	varies	The drone takes	
	pressing				[varies with the		off from the	
	up key				key press]		ground	
	every							
	second							
	until							
	drone							
	makes a							
	lift off.							
10	Кеер	\$M<	16	200	1500 [varies	varies	The drone moves	
	pressing	****			with the key		forward. (away	
	right key				press] 1500 [from the tester)	
	every				varies with the		monitude testery	
	second				key press]			
	until				key pressj			
	drone							
	makes a							
	forward							
	movement							
11	Keep	\$M<	16	200	1500 [varies	varies	The drone moves	
	pressing				with the key		backward.	
	left key				press] 1500		(towards the	
	every				[varies with the		tester)	
	second				key press]			
	until							
	drone							
	makes a							
	forward							
	movement							