		Main wing	Hstab			Vstab					
	Planform area (in^2)	429.1071428	146.25		Planform area (in^2)	82.375			Control Surfaces		
	in ft^2	2.979910714			Planform area (upper)(in^2)	55.5			Aileron	Elevator	Rudder
	Span (in)	36	22.5		Planforma area (lower(in^2)	26.875		Span Fraction (root/tip)	.2222/.8194	0/1	.2/.863
	in ft	3			Semispan - upper ledge (in)	8		Chord Fraction (root/tip)	.192/.196	1/1	.293/.258
	Semispan (one wing, in)	14	7		Semispan - fuselage (in)	10		Saturation (deg)	11	18	18
	RA	3.02022472	3.461538462		Root chord - upper ledge (in)	9.375					
	RT	0.2824207493	0.4054054054		Root chord - fuselage (in)	17.5		Aircraft volume	696.501	in^3	
	Root chord cof (in)	18.58928571			Tip chord (in)	4.5		Aircraft volume	0.4030677083	ft^3	
	Root chord (in)	15.625	9.25		RT (fuselage to upper)	0.5357142857		aircraft density	0.4534133076	slug*ft^3	
	Tip chord (in)	5.25	3.75		RT (upper ledge)	0.48		aircraft weight no battery	5.88	lb	
	Mean aerodynamic chord (in)	13.16364366	6.887820513		RA (upper)	1.153153153		Battery weight	1.67	lb	
	in ft	1.096970305			RA (fuselage to upper)	0.1488372093		MU 6 battery density	51.9053	slug/ft^3	
	leading edge sweep (deg)	35.8	35.87		Mean aerodynamic chord (upper)(in)	7.222972973		Total weight	7.55	lb	
	Quarter chord sweep (deg)	30	31		Mean aerodynamic chord (lower)(in)	13.84689922					
	Trailing edge sweep (deg)	0	0		Leading edge sweep (upper) (deg)	47.5		Machup 6 calculations:			
	Dihedral (deg)	0	-10		Leading edge sweep (lower) (deg)	79		Total weight	7.5555	lbf	
	LE to CG (in)	4.74			Trailing edge sweep (upper) (deg)	25		Ixx	0.0357	slug*ft^2	
	LE_mw to LE_h (in)		20		Trailing edge sweep (lower) (deg)	0		Iyy	0.1915	slug*ft^2	
	Plane tip to LE (in)	24.375	44.375		Quarter chord sweep (upper surface, deg)	38.2		Izz	0.222	slug*ft^2	
	Root quarter chord location (in)	0.83375	-17.5725		Quarter chord sweep (lower surface, deg)	72		Ixz	0.0023	slug*ft^2	
	in ft	0.06947916667			Dihedral (deg)	90					
	Airfoil				LE_mw to LE_v	9.875					
					Plane tip to LE	34.25			0.145		
	Engine inlet to rear hstab (in)		39		Root quarter chord location (in)	-9.51			0.109		
	Plane length (Plane tip to rear of hstab) (in)		53.625		Airfoil				0.02		
	fuselage thickness (in)		6						0.105		
									0.012		
									0.006		
	* Planform and RT of main wing found by extending wing surface to center of fuselage					Transmitter			0.006		
						0.314	lb		0.403		