



#	PART NAME	DESCRIPTION	QTY
1	Avionics Battery	7.4V 450mAh 20C LiPo	1
2	ESC	E-flite 100A	1
3	Receiver	FrSky X8R	1
4	Remote ID Module	G115 FAA Remote ID Module	1
5	Motor	Spektrum Avian 5065-450Kv Brushless Motor	1
6	Propulsion Battery	HRB 22.2V 6S 4500mAh 100C LiPo	1
7	Aileron Servo	SF Electronics S05NF	2
8	Rudder Servo	Freewing MD31092	1
9	Elevator Servo	SF Electronics S05NF	1
10	XTV Elevator Servo	2g Micro Servo Motor	1
11	XTV Aileron Servo	2g Micro Servo Motor	1
12	XTV Light Battery	Duracell 9V	1
13	XTV Avionics Battery	Blomiky 1S 3.8V 450mAh 80C LiPo	1
14	GPS Module	GT-U7 GPS Module	1
15	XTV Light	Vollong 3W RGB High Power LED	1
16	XTV Microcontroller	Arduino Nano	1
17	XTV Accelerometer	GY-521 MPU-6050	1
18	XTV MOSFET	PWM MOSFET Trigger Switch	1



Columbia University  
AIAA DBF 2025

SIZE	DWG. NO.	REV
B	Systems Layout	
SCALE: 1:24	WEIGHT:	SHEET 3 OF 4