

Name of Item	Description	Used in which subsystem(s)	Part Number	Manufacturer	Quantity	Price	Total
IMU's	6-Axis Inertial Measurement Units	Data Collection	ISM330DHCXTR	STM	2	11.34	22.68
MCU	Low Power 32-bit Microcontroller	Data Collection	LPC54113J128BD64QL	NXP Semiconductors	1	8.41	8.41
Memory Chip	128 Mbit Flash Memory	Data Collection	AT25SL128A-MHE-T	Adesto Technologies	1	2.19	2.19
1.8V LDO	1.8V Voltage Regulator	Power	NCP163ASN180T1G	ONSEMI	2	0.52	1.04
3.3V LDO	3.3V Voltage Regulator	Power	NCP711BMT330TBG	ONSEMI	2	0.9	1.8
PCB	The printed circuit board	PCB	PCB	JLPCB	1	52.72	52.72
1.0 uF Capacitor	PCB capacitor	PCB	885012106022	WurthElektronik	6	0.43	2.58
0.1 uF Capacitor	PCB capacitor	PCB	88502206020	WurthElektronik	16	0.1	1.6
0.01 uF Capacitor	PCB capacitor	PCB	C0603X103F3GACTU	KEMET	2	2.05	4.1
10 uF Capacitor	PCB capacitor	PCB	AEF0608100M100R	Kyocera AVX	4	0.6	2.4
22 pF Capacitor	PCB capacitor	PCB	C1608C0G1H220J080AA	TDK	4	0.12	0.48
Red LED	Red status LED	PCB	AA1608SURSK	Kingbright	2	0.54	1.08
60 Ohm Resistor	PCB resistor	PCB	RG1608N-680-W-T1	Susumu	2	0.8	1.6
10 kOhm Resistor	PCB resistor	PCB	RG1608N-103-W-T5	Susumu	4	0.76	3.04
Resistor Kit	PCB resistors	PCB	1222680	MCIGICM	1	7.99	7.99
Motor	12 V Metal Gear Motor	Mechanical	4865	Pololu	2	\$45.95	91.9
Motor Bracket	Pololu 25D mm Motor Bracket	Mechanical	2676	Pololu	1	\$7.95	7.95
Motor Controller	Roboclaw 2x7A Motor Controller	Motor Controller	IMC404	BASICMICRO	1	\$79.95	79.95
Battery Holder	AA Battery Holder with Lead Wires	Power	6543877239	LampVPath	1	\$6.48	6.48
Super Glue	Loctite Super Glue Ultra Gel	Mechanical	1739050	Loctite	1	\$4.36	4.36
Fishing Line	Clear Fishing Wire, 656 ft	Mechanical	AFL-05	Acejoz	1	\$6.65	6.65
PVC Pipe	20ft 2" schedule 40 pvc	Mechanical	72000800	Charlotte	2	\$43.82	87.64
PVC 90	Nibco 90 elbow pvc	Mechanical	39923215543	NIBCO	10	\$5.15	51.5
AA Battery	28 Duracell AA batteries	Power	B08Q87MF19	Duracell	1	\$14.69	14.69
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Total				Total Components	70	Total Cost	464.83