









































609.2 Final Bill of Materials

ITEM	MANUFACTURER	PART NUMBER	TYPE OF COMPONENT	COST	QUANTITY	TOTAL COST
22.2V 1.4ah Lipo Battery	Tattu R-Line	TAA14006S13X6	ELECTRICAL	\$39.99	2	\$79.98
Buck-Boost Regulator	DkpInt	XL6009	ELECTRICAL	\$11.99	1	\$11.99
XT60 Connector	RioRand	RR-5PC-XT-60	ELECTRICAL	\$5.99	1	\$5.99
18 Gauge Wire	Fermerry	B089CVRX42	ELECTRICAL	\$19.99	1	\$19.99
Arduino	Arduino	A000066	ELECTRICAL	\$0.00	1	\$0.00
Scotch-Mount Indoor Double-Sided Mounting Tape	Scotch	314H-MED	ELECTRICAL	\$4.79	1	\$4.79
Shrink Tubing	DHOOZ	B0BLK98LBM	ELECTRICAL	\$7.99	1	\$7.99
Wire Jumper Cable Pin Header	CHENBO	WJ-Z01	ELECTRICAL	\$9.29	1	\$9.29
Brass Standoffs	Dana Fred	XHHD17009	ELECTRICAL	\$11.99	1	\$11.99
Soldering Board	E Blocks	EB01630	ELECTRICAL	\$2.00	1	\$2.00
Jumper Cable	ELEG00	B01EV70C78	ELECTRICAL	\$0.00	1	\$0.00
Arduino Shield	Adafruit	B00N426HCG	ELECTRICAL	\$0.00	1	\$0.00
Frame Base	Mcmaster Carr	8975K142	FRAME	\$74.21	1	\$74.21
Plexiglass	Calpalmy	B09WHVF3SN	FRAME	\$14.59	1	\$14.59
M5 Screw	Mcmaster Carr	90751A124	FRAME	\$16.53	5	\$16.53
Threaded inserts	Mcmaster Carr	97163A137	FRAME	\$5.89	8	\$5.89
Wing Nuts	Mcmaster Carr	94545A225	FRAME	\$6.89	5	\$6.89
4-40 Screws	Mcmaster Carr	92200A106	FRAME	\$3.66	8	\$3.66
3D Printed Motor Mount	OSU	-	FRAME	\$0.00	2	\$0.00
3D Printed Frame Top	OSU	-	FRAME	\$0.00	1	\$0.00
Hexagon Armor	OSU	-	FRAME	\$0.00	1	\$0.00
Wheel	Parallax	28115	MOBILITY	\$3.99	2	\$7.98
Ball Wheel	Mcmaster Carr	2415T15	MOBILITY	\$9.38	1	\$9.38
Planetary Gearhed	Maxon	166158	MOTOR	\$0.00	2	\$0.00
EC 45 flat motor	Maxon	651607	MOTOR	\$0.00	2	\$0.00
Motor Controller	Maxon	367661	MOTOR	\$0.00	2	\$0.00
Evaluation Board	Maxon	370652	MOTOR	\$0.00	2	\$0.00
Cable with Connector	Maxon	354045	MOTOR	\$0.00	2	\$0.00
Infared Sensor	Daoki	TS-US-070-CA	SENSOR	\$5.99	1	\$5.99
Ultrasonic Sensor	ELEGOO	EL-SM-001	SENSOR	\$9.99	1	\$9.99
Digital Accelerometer	Sun Founder	ADXL345	SENSOR	\$6.99	1	\$6.99
Boat Rocker Switch	QTEATAK	B07Y1GDRQG	SENSOR	\$5.99	1	\$5.99
Shipping Estimate				\$100.00	1	\$100.00
						\$422.10