Part	Quantity	Price/per	Total	Ordered?	Needed for V2
MECHANICAL					
2020 Extrusion	96in	\$0.16	\$17.32	Υ	N
2020 nuts m4	50	\$0.21	\$10.50	Υ	N
100x M4 Button Screws	1	\$9.90	\$9.90	Υ	N
Flanged Bearings	8	\$3.97	\$31.76	Υ	Υ
Shaft Collars	8	\$3.89	\$31.12	Υ	Υ
12" Shaft	1	\$7.72	\$7.72	Υ	Υ
6-32 Thread Size, 1-1/4" Long, wheel screws 1		\$6.80	\$6.80	Υ	N
6-32 Thread Size, wheel/frame nuts		\$3.40	\$3.40	Υ	N
6-32 Thread Size, 2" Long, frame screws 1		\$6.90	\$6.90	Υ	Υ
Intake Rod	1 ft	\$5.45	\$5.45	Υ	N
NEMA Screws	1	\$4.18	\$4.18	Υ	N
Hex Nuts	2	\$2.14	\$4.28	Υ	N
Lead Screws	1	\$5.14	\$5.14	Υ	N
Lead Screw Coupling Tubing	10ft	\$7.00	\$7.00	Υ	N
50x 10-32 Screws	1	\$6.06	\$6.06	Υ	N
motor sprockets	2	\$13.85	\$27.70	Υ	Υ
Motors	2	\$7.25	\$14.50	Υ	Υ
Gearboxes	2	\$56.50	\$113.00	Υ	Υ
Gearbox Mount Accesorices	2	\$4.50	\$9.00	Υ	Υ
Chain	1	\$16.88	\$16.88	Υ	Υ
Chain Tools	1	\$21.80	\$21.80	Υ	N
NEMA 17 Vertical Bar Actuator	3	\$12.99	\$38.97	Υ	N
2020 tubing 20mmX20mm	96	\$0.16	\$15.36	Υ	Υ
100x Frame screws	1	\$9.90	\$9.90	Υ	Υ
flanged bearings for axles	8	\$3.97	\$31.76	Υ	Υ
Shaft collars for axles	8	\$3.89	\$31.12	Υ	Υ
Axle	1	\$7.72	\$7.72	Υ	Υ
Sprocket	2	\$13.85	\$27.70	Υ	Υ
Motor	2	\$7.25	\$14.50	Υ	Υ
Gearbox for motors	2	\$45.90	\$91.80	Υ	Υ

Motor mounts	2	\$6.50	\$13.00	Υ	Υ
Dual DC motor Controller	1	\$63.39	\$63.39	Υ	Υ
PLA pro blue	1	\$21.99	\$21.99	Υ	Υ
PLA pro orange	1	\$22.99	\$22.99	Υ	Υ
MECHANICAL TOTAL BUDGET			\$750.61		
ELECTRICAL					
Raspberry Pi 3B+	2	\$30.00	\$60.00	Υ	Υ
Arduino Nano	2	\$20.00	\$40.00	Υ	Y
3 Stepper Motor Driver	1	\$30.00	\$30.00	Υ	N
Dual DC Motor Driver (70A inrush)	1	\$70.00	\$70.00	Υ	Υ
Auxillary LiPo Battery	1	\$30.00	\$30.00	Υ	Υ
Main 12V LiPo Battery	1	\$30.00	\$30.00	Υ	Υ
5V Voltage Regulator	1	\$10.00	\$10.00	Υ	Υ
Raspberry Pi Camera V2.1	2	\$20.00	\$40.00	Υ	Y
Raspberry Pi Camera Ribbon Cable	1	\$10.00	\$10.00	Υ	Υ
USB-B to USB-A Cable	1	\$5.00	\$5.00	Υ	Υ
YDLIDAR Module	1	\$100.00	\$100.00	Υ	Υ
Various Connectors and Wires	1	\$0.00	\$0.00	Υ	Υ
Razor IMU M0	2	\$35.95	\$71.90	Υ	Υ
Raspberry Pi GPIO tall header	2	\$1.95	\$3.90	Υ	Υ
LIDAR	1	\$99.00	\$99.00	Υ	Υ
Capacitive Encoder	2	\$21.86	\$43.72	Υ	Υ
Servo	2	\$17.89	\$35.78	Υ	Υ
Pi Cam Cable	1	\$5.43	\$5.43	Υ	Υ
LCD	2	\$9.79	\$19.58	Υ	Υ
ELECTRICAL TOTAL BUDGET			\$704.31		
FULL ESTIMATED PROJECT BUDGET			\$1,454.92		
ACTUAL COST					