Part Number	Description	Manufacturer	#	Product Link	Cost per Item	Total Cost
A000005	Arduino Nano	Arduino	4	https://store-usa.arduino. cc/products/arduino-nan o?selectedStore=us	\$20.70	\$82.80
RP4B4GB	Raspberry Pi 4 Model B - 4 GB RAM	Raspberry Pi	2	https://vilros.com/produc ts/raspberry-pi-4-4gb-ra m?src=raspberrypi	\$55.00	\$110.00
SC0025	Official Raspberry Pi 7" Touchscreen LCD Display	Raspberry Pi	2	https://vilros.com/produc ts/raspberry-pi-7-touchsc reen-lcd-display?src=ras pberrypi	\$74.95	\$149.90
TMCS110 0A4QDR Q1	Automotive hall effect sensor	Texas Instruments	3	https://www.mouser.co m/ProductDetail/Texas -Instruments/TMCS11 00A4QDRQ1?qs=QN EnbhJQKvbjO1r%252 BMdmvKQ%3D%3D	\$3.76	\$11.28
S2GFS M3G	Power Diode	Taiwan Semiconductor	3	https://www.digikey.co m/en/products/detail/ta iwan-semiconductor-co rporation/S2GFS-M3G /12806672	\$4.34	\$13.02
MTPM-P3 3-1M18	DC Motor	IronHorse	1	https://www.automatio ndirect.com/adc/shoppi ng/catalog/motors/dc_ motors_(up_to_2hp)/g eneral_purpose/mtpm- p33-1m18	\$186	\$186
WGA-40 M-020-H1	Gearbox	IronHorse	1	https://www.automatio ndirect.com/adc/shoppi ng/catalog/power_trans mission_(mechanical)/ general_purpose_alumi num_worm_gearboxes /wga-40m-020-h1	\$140	\$140
KY-032	Tachometer	Keyes	3	https://www.amazon.co m/Electronics-Infrared -Obstacle-Avoidance- Arduino/dp/B0786B8J 92	\$3	\$9
4493	Potentiometer	STEMMA	2	https://www.adafruit.co m/product/4493#descri ption	\$3.95	\$7.90
N/A	Motor Controller PCB	JLCPCB	5	https://cart.jlcpcb.com/ quote	\$2.00	\$2.00

B07DR9S 5C9	E-Bike Brake Levers with Switches	Dioche	2	https://www.amazon.co m/Brakes-Durable-Bic ycle-Electric-Replace ment/dp/B07DR9S5C9 /ref=sr_1_2?keywords =e-bike+brake+lever& qid=1643332384&sr=8	\$21.99	\$43.98
4936T345	1" OD galvanized steel framing rail (10 feet)	McMaster-Carr	1	https://www.mcmaster. com/4936T101-4936T 345/	\$85.09	\$85.09
4936T307	1" OD galvanized steel framing rail (5 feet)	McMaster-Carr	1	https://www.mcmaster. com/4936T101-4936T 307/	\$42.54	\$42.54
4698T31	90 degree elbow connector for 1" rail	McMaster-Carr	2	https://www.mcmaster. com/4698T31/	\$10.52	\$21.04
4698T96	Adjustable angle wye connector for 1" rail	McMaster-Carr	4	https://www.mcmaster. com/4698T96/	\$18.16	\$72.64
4698T86	Adjustable angle cross connector for 1" rail	McMaster-Carr	1	https://www.mcmaster. com/4698T86/	\$26.92	\$26.92
4698T73	Adjustable angle elbow connector for 1" rail	McMaster-Carr	2	https://www.mcmaster. com/4698T73/	\$22.84	\$45.68
NB-SC6-B S12	Tie down cradle for 1" tubing (set of 6)	BIKEGEAR	1	https://www.amazon.com/BIKEGEAR-Replacement-Accessory-Hitching-Carriers/dp/B08DFDCH5J/ref=sr_1_1_sspa?crid=O1DJ872W4DS9&keywords=bike+rack+cradle&qid=1643338235&sprefix=bike+rack+cradle%2Caps%2C132&sr=8-1-spons&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWvyPUEzNFIJM01RWspLUzRUJmVuY3J5cHRIZEIkPUEwMzQ1ODM3MkhURFVYWVBIT0hYVSZlbmNyeXB0ZWRBZEIkPUEwNDY0ODIxMUNUMkIRODZBSVFFUiZ3aWRnZXROYW11PXNwX2F0ZiZhY3Rpb	\$49.50	\$49.50

				249Y2xpY2tSZWRpc		
				mVjdCZkb05vdExvZ0 NsaWNrPXRydWU=		
72457	Zefal "Cristophe" Mountain Bicycle Half Toe Clip S/M (CHOOSE S/M SIZE)	Zefal	1	https://www.amazon.co m/Zefal-Cristophe-Mo untain-Bicycle-Clips/d p/B000AO9K9S/ref=sr _1_23?keywords=toe %2Bcages%2Bfor%2B bike%2Bpedals&qid=1 642108542&s=sportin g-goods&sprefix=toe% 2Bcage%2Csporting% 2C124&sr=1-23&th=1 &psc=1	\$11.90	\$11.90
854175117 4	Universal Monitor Pole Mount Bracket with VESA 75/100	Loutytuo	1	https://www.amazon.co m/Loutytuo-Universal- Punching-Adjustable- Diameter/dp/B07R7SC 4B8/ref=sr_1_3?crid=3 SLT4U65QIGL7&key words=vesa%2Bpole% 2Bmount&qid=164209 2404&s=office-product s&sprefix=vesa%2Bpo le%2Bmount%2Coffic e-products%2C81&sr= 1-3&th=1	\$37.89	\$37.89
B089NKP W39	Bike Trainer Stand Indoor Riding Steel Bicycle Exercise Stand with Noise Reduction Wheel Magnetic Stationary Stand fits for 26-28inch, 700C Wheel	Unisky	1	https://www.amazon.co m/Exercise-Magnetic- Training-Stationery-M ountain/dp/B0876XCF C3/ref=sr_1_2_sspa?cr id=30LXTK8CJPKB1 &keywords=bike%2Bt rainer&qid=16420927 62&s=sporting-goods &sprefix=bike%2Btrai ner%2Csporting%2C1 02&sr=1-2-spons&spL a=ZW5jcnlwdGVkUX VhbGlmaWVyPUExM FcyN1UyTEIWMFBH JmVuY3J5cHRIZEIkP UEwNDU1NTk4M0R IMDJBUZQ4UkdXViZ IbmNyeXB0ZWRBZE IkPUEwOTQ1Mjk1M 0VJNDdBSk0xUzM5 RSZ3aWRnZXROYW 11PXNwX2F0ZiZhY3 Rpb249Y2xpY2tSZW RpcmVjdCZkb05vdEx vZ0NsaWNrPXRydW U&th=1	\$89.99	\$89.99
B092VJX GJ6	HDMI Splitter, 1 in 2 Out 4K HDMI	ZI YOUREN	1	https://www.amazon.co m/Splitter-Monitors-D uplicate-Amplifier-Dis plays/dp/B092VJXGJ6	\$10.99	\$10.99

	Splitter Display Duplicate/Mirr or, 1x2 HDMI Splitter One Input to Two Outputs for Full HD 4K@30HZ 1080P 3D Splitter (1 Source to 2 Displays)			/ref=asc_df_B092VJX GJ6/?tag=hyprod-20&l inkCode=df0&hvadid= 507563721518&hvpos =&hvnetw=g&hvrand =12334949305384762 110&hvpone=&hvptw o=&hvqmt=&hvdev=c &hvdvcmdl=&hvlocint =&hvlocphy=1025954 &hvtargid=pla-134499 8815656&psc=1		
BO81ZQK XN4	Power Strip with 2 Outlets and 3 USBs	One Beat	1	Amazon.com: Power Strip with USB - 2 Outlets 3 USB Charging Ports(3.1A, 15W), Desktop Charging Station with 5 ft Braided Extension Cord, Flat Plug Travel Power Strip for Cruise, Home Office, ETL Listed: Electronics	\$12.29	\$12.29
QXAD007 2	M1.6x2.5mm(OD)x4mm(L), 30 Pcs	Antrader	1	https://www.amazon.co m/Antrader-Female-Kn urled-Embedment-Ass ortment/dp/B07TTQX VQH/ref=sr 1 4?crid= 198A91X2M0809&ke ywords=m1.6%2Bstan doff&qid=1643760584 &sprefix=m1.6%2Bsta ndoff%2Caps%2C466 &sr=8-4&th=1	\$5.99	\$5.99
20181113	OEM Standoff Bolt Stainless Steel M1.6	Yufu	16	https://www.alibaba.co m/product-detail/Yufu- OEM-Standoff-Bolt-St ainless-Steel_6082702 2836.html?spm=a2700 .7724857.normal_offer .d_title.446c12cc1lNX W7	\$0.01	\$0.16
NJASD63 2891	Caution Electrical Safety Hazard Sticker Pack of 3	D Sticky Company	1	https://www.amazon.co m/Caution-Electrical-S afety-Hazard-Sticker/d p/B085G4VS7F/ref=sr _1_23?crid=3KBNQE YMJTIJX&keywords= electric+hazard+label &qid=1643913803&sp refix=electric+hazard+ label%2Caps%2C92& sr=8-23	\$6.99	\$6.99
47065T80 1	T-Slotted Framing	McMaster-Carr	2	https://www.mcmaster. com/47065T801/	\$5.53	\$11.06

	Single Four Slot Rail, Silver, 1" High x 1" Wide, Solid INPUT 7 INCH LENGTH					
3136N147	T-Slotted Framing Screw on Bumper for 1" High Single Rail	McMaster-Carr	4	https://www.mcmaster. com/3136N147/	\$4.25	\$17.00
3787K13	Flexible Shaft with Female x Female Fittings 1/2 Feet Overall Length, 1/4" OD	McMaster-Carr	1	https://www.mcmaster. com/3787K13/	\$84.81	\$84.81
3084K66	Machinable-B ore Clamping Shaft Coupling Steel, for 5/8" x 0.625"-0.235" Keyed Shaft Diameter	McMaster-Carr	1	https://www.mcmaster. com/3084K66/	\$54.72	\$54.72
3084K91	Machinable-B ore Clamping Shaft Coupling Steel, for 10 mm x 10.000 mm-6.000 mm Round Shaft Diameter	McMaster-Carr	1	https://www.mcmaster. com/3084K91/	\$43.03	\$43.03
1555T121	Linear Motion Shaft 1060 Carbon Steel, 1/4" Diameter, 6" Long	McMaster-Carr	1	https://www.mcmaster. com/1555T121/	\$9.07	\$9.07
MTA-BAS E-W56	STABLE motor base, for use with	Automation Direct	1	https://www.automatio ndirect.com/adc/shoppi ng/catalog/motors/mot or_bases_(for_nema_ motors)/mta-base-w56	\$12.25	\$12.25

	56 frame motors					
47065T23 3	T-Slotted Framing Drop-in Nut with Stud, 1/4"-20 Thread Size	McMaster-Carr	4	https://www.mcmaster. com/47065T233/	\$1.86	\$7.44
1954	Machine Screw: M1.6, 3mm Length, Phillips (6-pack)	Generic	3	https://www.pololu.co m/product/1954/specs	\$1.99	\$5.79
ASHATAy 53iq2gz9w	20Pcs Threaded Insert, Self Tapping Slotted Screw Thread Insert, Stainless Steel, Knife Thread, M3 x 0.5 Inner Thread, M5 x 0.5 Outer Thread, 6mm	ASHATA	1	https://www.amazon.co m/Stainless-SUS303-T apping-Slotted-Thread/ dp/B07X9JQ79Q/ref=s r_1_13?crid=2284E9E BZAQTY&keywords= m3+screw+and+thread ed+insert+for+plastic& qid=1644008768&spre fix=m3+screw+and+th readed+insert+for+plas tic%2Caps%2C138&sr =8-13	\$10.19	\$10.19
GDA6015	2-Pack 60mm x 15mm USB Fan 5V Brushless DC Cooling Fans	GDSTIME	1	Amazon.com: GDSTIME 2-Pack 60mm x 15mm USB Fan 5V Brushless DC Cooling Fans for PC Computer Case Cooler Raspberry Pi Radiator Ventilation: Electronics	\$14.26	\$14.26
ADS1015	12-Bit ADC - 4 Channel with Programmable Gain Amplifier	Adafruit	1	https://www.adafruit.co m/product/1083	\$9.95	\$9.95
B08SQDF 6F3	2-Pack 60mm x 15mm USB Fan 5V	GDSTIME	1	https://www.amazon.co m/gp/product/B08SQD F6F3/ref=ppx_yo_dt_b _asin_title_o00_s00?ie =UTF8&th=1	\$12.99	\$12.99
	Total Quantity of	Parts:	82	Total Cost:		\$1,545.11