

Part, General	Part, Detailed	Distributor	Quantity	Single Unit Cost	Total Price	Website Link	\$791.47
Jetson Nano	NVIDIA Jetson Nano 4gb Developer Kit (945-13450-0000-100)	Amazon	1	\$149.00	\$149.00	<a href="https://www.amazon.com/NVIDIA-Jetson-Nano-Developer-945-13450-0000-100/dp/B084DSDLLT/ref=sr_1_3?crid=1MK5U4VCX89L&amp;keywords=nvidia+jetson+nano&amp;qid=1674428462&amp;s=electronics&amp;prefix=nvidia+jetson+nano%2Celectronics%2C147&amp;sr=1-3&amp;ufe=app_do%3Aamazon1.foos.f5122f16-c3e8-4386-bf32-63e904010ad0">https://www.amazon.com/NVIDIA-Jetson-Nano-Developer-945-13450-0000-100/dp/B084DSDLLT/ref=sr_1_3?crid=1MK5U4VCX89L&amp;keywords=nvidia+jetson+nano&amp;qid=1674428462&amp;s=electronics&amp;prefix=nvidia+jetson+nano%2Celectronics%2C147&amp;sr=1-3&amp;ufe=app_do%3Aamazon1.foos.f5122f16-c3e8-4386-bf32-63e904010ad0</a>	
Raspberry Pi 4	Raspberry Pi 4 4GB Model B	Canakit	1	\$55.00	\$55.00	<a href="https://www.canakit.com/raspberry-pi-4-4gb.html">https://www.canakit.com/raspberry-pi-4-4gb.html</a>	
Motors with Encoder	12V DC High Speed 130RPM Gear Motor with Encoder	Amazon	4	\$14.88	\$59.52	<a href="https://www.amazon.com/Encoder-Gearmotor-130RPM-Arduino-Printers/dp/B07GNGQ24C/ref=d_pd_di_sccai_on_scd_3_7/144-5710753-2053908?pd_rd_w=RNcnC&amp;contentId=amzn1.sym.e13de93e-5518-4644-8e6b-4ee572e0b062&amp;pf_rd_p=e13de93e-5518-4644-8e6b-4ee572e0b062&amp;pf_rd_r=ESS2ZD0A2FKTD4WT5S7W&amp;pd_rd_wg=mSxOC&amp;pd_rd_r=5d9fe69f-8b6e-4f44-af0c-f8e67c2f5f7&amp;pd_rd_i=B07GNGQ24C&amp;psc=1">https://www.amazon.com/Encoder-Gearmotor-130RPM-Arduino-Printers/dp/B07GNGQ24C/ref=d_pd_di_sccai_on_scd_3_7/144-5710753-2053908?pd_rd_w=RNcnC&amp;contentId=amzn1.sym.e13de93e-5518-4644-8e6b-4ee572e0b062&amp;pf_rd_p=e13de93e-5518-4644-8e6b-4ee572e0b062&amp;pf_rd_r=ESS2ZD0A2FKTD4WT5S7W&amp;pd_rd_wg=mSxOC&amp;pd_rd_r=5d9fe69f-8b6e-4f44-af0c-f8e67c2f5f7&amp;pd_rd_i=B07GNGQ24C&amp;psc=1</a>	
Wheels	Mecanum Wheel Pair - 48mm Diameter (2 pair pack)	Amazon	1	\$18.63	\$18.63	<a href="https://www.amazon.com/dp/B08TV1HGMG?psc=1&amp;ref=ppx_vo2ov_dt_b_product_details">https://www.amazon.com/dp/B08TV1HGMG?psc=1&amp;ref=ppx_vo2ov_dt_b_product_details</a>	
Motor Driver Board	HiLetgo 4pcs L298N Motor Driver Board, DC Dual H-Bridge	Amazon	1	\$11.49	\$11.49	<a href="https://www.amazon.com/gp/product/B07BK1QL5T/ref=ppx_vo_dt_b_asin_title_o03_s007?ie=UTF8&amp;psc=1">https://www.amazon.com/gp/product/B07BK1QL5T/ref=ppx_vo_dt_b_asin_title_o03_s007?ie=UTF8&amp;psc=1</a>	
Wifi Card	Waveshare AC8265 Wireless NIC Module for Jetson Nano Supports 2.4GHz / 5GHz Dual Band WiFi and Bluetooth 4.2	Amazon	1	\$23.99	\$23.99	<a href="https://www.amazon.com/gp/product/B07SGDRG34/ref=ppx_vo_dt_b_asin_title_o02_s007?ie=UTF8&amp;psc=1">https://www.amazon.com/gp/product/B07SGDRG34/ref=ppx_vo_dt_b_asin_title_o02_s007?ie=UTF8&amp;psc=1</a>	
16 AWG Wire	TUOFENG 16 awg Wire Solid Core, multicolor	Amazon	1	\$19.99	\$19.99	<a href="https://www.amazon.com/gp/product/B0C2TZYFDC/ref=ppx_vo_dt_b_asin_title_o08_s007?ie=UTF8&amp;psc=1">https://www.amazon.com/gp/product/B0C2TZYFDC/ref=ppx_vo_dt_b_asin_title_o08_s007?ie=UTF8&amp;psc=1</a>	
Solder	AUSTOR Pack of 6 Solder Wire 60-40 Rosin Core Solder 0.6mm, 1.8% flux	Amazon	1	\$9.99	\$9.99	<a href="https://www.amazon.com/gp/product/B0C2TZYFDC/ref=ppx_vo_dt_b_asin_title_o08_s007?ie=UTF8&amp;psc=1">https://www.amazon.com/gp/product/B0C2TZYFDC/ref=ppx_vo_dt_b_asin_title_o08_s007?ie=UTF8&amp;psc=1</a>	
11.1 V LiPo Batteries	HRB 2PCS 3S 5000mAh Lipo Battery 11.1V 50C 100C (2 pack)	Amazon	1	\$79.99	\$79.99	<a href="https://www.amazon.com/gp/product/B08BQX4BMN/ref=ppx_vo_dt_b_asin_title_o07_s007?ie=UTF8&amp;th=1">https://www.amazon.com/gp/product/B08BQX4BMN/ref=ppx_vo_dt_b_asin_title_o07_s007?ie=UTF8&amp;th=1</a>	
LiPo Battery Charger	Tenergy TB6AC+80W Balance Charger Discharger, 1S-6S	Amazon	1	\$46.99	\$46.99	<a href="https://www.amazon.com/gp/product/B010CCMWMQ/ref=ppx_vo_dt_b_asin_title_o06_s007?ie=UTF8&amp;psc=1">https://www.amazon.com/gp/product/B010CCMWMQ/ref=ppx_vo_dt_b_asin_title_o06_s007?ie=UTF8&amp;psc=1</a>	
LIDAR	Slamtec RPLIDAR A1M8 2D 360 Degree 12 Meters Scanning Radius LIDAR w/ USB adapter	Amazon	1	\$99.00	\$99.00	<a href="https://www.amazon.com/gp/product/B07TJW5SXF/ref=ppx_vo_dt_b_asin_title_o06_s017?ie=UTF8&amp;psc=1">https://www.amazon.com/gp/product/B07TJW5SXF/ref=ppx_vo_dt_b_asin_title_o06_s017?ie=UTF8&amp;psc=1</a>	
Velcro Straps	VELCRO Brand - ONE WRAP Thin Ties Reusable Light Duty, 8" x 1/2" Ties, 50 Count	Amazon	1	\$5.27	\$5.27	<a href="https://www.amazon.com/gp/product/B010BYZFKY/ref=ppx_vo_dt_b_asin_title_o06_s007?ie=UTF8&amp;psc=1">https://www.amazon.com/gp/product/B010BYZFKY/ref=ppx_vo_dt_b_asin_title_o06_s007?ie=UTF8&amp;psc=1</a>	
Raspberry Pi 4 Proto Shield	Raspberry Pi 3 Prototyping Board Proto Breadboard HAT by MakerSpot Soldered with Female Pin Connector PCB	Amazon	1	\$14.99	\$14.99	<a href="https://www.amazon.com/gp/product/B07B4TRVFD/ref=ppx_vo_dt_b_asin_title_o03_s007?ie=UTF8&amp;th=1">https://www.amazon.com/gp/product/B07B4TRVFD/ref=ppx_vo_dt_b_asin_title_o03_s007?ie=UTF8&amp;th=1</a>	
Barrel Jack to Bare Leads Adapter	DC Power Pigtail Cable, 3FT DC 5.5MM x 2.1MM Male Plug, 16 AWG	Amazon	1	\$9.99	\$9.99	<a href="https://www.amazon.com/Pigtails-Female-Connector-Pigtail-Security/dp/B08PYWN31T/ref=sr_1_3?crid=1J64L6KLGOOB&amp;diib=ey12ljo1MSJ9_NkYSArisMjrF0eRiGLB-v9baR4hXzNubEnEJ5a0NPJ9tJAKnKuiJid6EJ2D_MrdKtbnhmwRiSebxTBZuu-nhNGW1jXsOYcRXdiZ5DKdJkQ7Q8lRxxmL0qpz8qeSl5ysuv0Jtkp0G6lMAJ859yY_jWUauZiilXEqicq6lYqKQsEnba_i7MeJe0sj-FrQDT_nYbYFCMwsofP31SYDYf-REvKAeTALwvD2kqS_BzQjdrg3Jhmvg36FE191gQjKNhMuKHAfEgeevLktpBeqOICBQg1JkCjYc1Xf0LJBmxClbtXt9RyJC-iW3z2z2ufz68-vP1f0WEpthyLCo&amp;diib_tags=se&amp;keywords=barrel+jack+to+bare+leads+16+awg&amp;qid=1718670327&amp;srefix=barrel+jack+to+bare+leads+16+awg%2Ccaps%2C87&amp;sr=8-3&amp;th=1">https://www.amazon.com/Pigtails-Female-Connector-Pigtail-Security/dp/B08PYWN31T/ref=sr_1_3?crid=1J64L6KLGOOB&amp;diib=ey12ljo1MSJ9_NkYSArisMjrF0eRiGLB-v9baR4hXzNubEnEJ5a0NPJ9tJAKnKuiJid6EJ2D_MrdKtbnhmwRiSebxTBZuu-nhNGW1jXsOYcRXdiZ5DKdJkQ7Q8lRxxmL0qpz8qeSl5ysuv0Jtkp0G6lMAJ859yY_jWUauZiilXEqicq6lYqKQsEnba_i7MeJe0sj-FrQDT_nYbYFCMwsofP31SYDYf-REvKAeTALwvD2kqS_BzQjdrg3Jhmvg36FE191gQjKNhMuKHAfEgeevLktpBeqOICBQg1JkCjYc1Xf0LJBmxClbtXt9RyJC-iW3z2z2ufz68-vP1f0WEpthyLCo&amp;diib_tags=se&amp;keywords=barrel+jack+to+bare+leads+16+awg&amp;qid=1718670327&amp;srefix=barrel+jack+to+bare+leads+16+awg%2Ccaps%2C87&amp;sr=8-3&amp;th=1</a>	
Zipties	Hyper Tough 4 inch 18lb Cable Ties 50 count (for wire management)	Walmart	1	\$1.97	\$1.97	<a href="https://walmart.com/ip/Hyper-Tough-4-inch-18lb-Cable-Ties-Natural-and-UV-Resistant-Black-50-Count/430028772?fulfillmentIntent=in-store&amp;athbdg=L1102&amp;from=search">https://walmart.com/ip/Hyper-Tough-4-inch-18lb-Cable-Ties-Natural-and-UV-Resistant-Black-50-Count/430028772?fulfillmentIntent=in-store&amp;athbdg=L1102&amp;from=search</a>	
MicroSD card	SanDisk 128GB	Walmart	2	\$18.98	\$37.96	<a href="https://www.walmart.com/ip/SanDisk-128GB-ImageMate-microSDXC-UHS-1-Up-to-140MB-s-SDSQUA4-128G-Aw6ka/526764488?fulfillmentIntent=in-store&amp;athbdg=L1600">https://www.walmart.com/ip/SanDisk-128GB-ImageMate-microSDXC-UHS-1-Up-to-140MB-s-SDSQUA4-128G-Aw6ka/526764488?fulfillmentIntent=in-store&amp;athbdg=L1600</a>	
Heat Shrink	650pcs Heat Shrink Tubing Black innhom	Amazon	1	\$9.95	\$9.95	<a href="https://www.amazon.com/650pcs-Shrink-Tubing-innhom-Approved/dp/B07WWWPR2X/ref=sr_1_6?crid=1F98WKR655OUW&amp;keywords=heat+shrinks&amp;qid=1705348628&amp;srefix=heatsink%2Ccaps%2C139&amp;sr=8-6">https://www.amazon.com/650pcs-Shrink-Tubing-innhom-Approved/dp/B07WWWPR2X/ref=sr_1_6?crid=1F98WKR655OUW&amp;keywords=heat+shrinks&amp;qid=1705348628&amp;srefix=heatsink%2Ccaps%2C139&amp;sr=8-6</a>	
Jumper Cables	EDGELEC 120pcs Breadboard Jumper Wires - Assorted (M-M, M-F, F-F)	Amazon	1	\$6.98	\$6.98	<a href="https://www.amazon.com/EDGELEC-Breadboard-Optional-Assorted-Multicolored/dp/B07GD2BWPY/ref=sr_1_3?crid=3CRLNZOPY4ZIU&amp;keywords=jumper%2Bcables%2Bp&amp;qid=1705348862&amp;srefix=jumper%2Bcables%2Bp%2Ccaps%2C118&amp;sr=8-3&amp;th=1">https://www.amazon.com/EDGELEC-Breadboard-Optional-Assorted-Multicolored/dp/B07GD2BWPY/ref=sr_1_3?crid=3CRLNZOPY4ZIU&amp;keywords=jumper%2Bcables%2Bp&amp;qid=1705348862&amp;srefix=jumper%2Bcables%2Bp%2Ccaps%2C118&amp;sr=8-3&amp;th=1</a>	
PLA Filament	PLA Basic	Bambu Lab	1	\$27.99	\$27.99	<a href="https://us.store.bambulab.com/products/pla-basic-filament">https://us.store.bambulab.com/products/pla-basic-filament</a>	
Voltage Regulators	12 Pack DC-DC 5A Buck Converter 4-38V to 1.25-36V Step-Down Voltage Regulator	Amazon	1	\$13.99	\$13.99	<a href="https://www.amazon.com/dp/B085T73CSD?ref=cm_sw_r_apan_dp_75AORFPFJSRSEEEKG755Y&amp;language=en-US">https://www.amazon.com/dp/B085T73CSD?ref=cm_sw_r_apan_dp_75AORFPFJSRSEEEKG755Y&amp;language=en-US</a>	
Toggle Switches	DaierTek 12V Blue LED Illuminated Toggle Switch with Safety Cover Guard 3 Pin (2 pack)	Amazon	1	\$7.99	\$7.99	<a href="https://www.amazon.com/dp/B07SZJLNYZ?ref=cm_sw_r_apan_dp_MQV9J4HVMRDROEHDFVW8&amp;language=en-US&amp;th=1">https://www.amazon.com/dp/B07SZJLNYZ?ref=cm_sw_r_apan_dp_MQV9J4HVMRDROEHDFVW8&amp;language=en-US&amp;th=1</a>	
TRX to Bare Leads Connector	BDHI 3pcs Compatible with TRX Male Connectors 10cm 12awg Wire (3 pack)	Amazon	1	\$8.98	\$8.98	<a href="https://www.amazon.com/BDHI-Traxxas-Connectors-Turnigy-B140-3/dp/B082VWX62P/ref=gp_aw_ybh_a_scd_1/131-0814471-2901109?pd_rd_w=keJX0&amp;contentId=amzn1.sym.9720001e-8f8b-4ff3-adb5-e19707d97116&amp;pf_rd_p=9720001e-8f8b-4ff3-adb5-e19707d97116&amp;pf_rd_r=P0FTDX51MQCSVE4BCKM&amp;pd_rd_wg=Etdlj&amp;pd_rd_r=1fc312c4-8a8b-48a1-b9df-12733305ed9d&amp;pd_rd_i=B082VWX62P&amp;psc=1">https://www.amazon.com/BDHI-Traxxas-Connectors-Turnigy-B140-3/dp/B082VWX62P/ref=gp_aw_ybh_a_scd_1/131-0814471-2901109?pd_rd_w=keJX0&amp;contentId=amzn1.sym.9720001e-8f8b-4ff3-adb5-e19707d97116&amp;pf_rd_p=9720001e-8f8b-4ff3-adb5-e19707d97116&amp;pf_rd_r=P0FTDX51MQCSVE4BCKM&amp;pd_rd_wg=Etdlj&amp;pd_rd_r=1fc312c4-8a8b-48a1-b9df-12733305ed9d&amp;pd_rd_i=B082VWX62P&amp;psc=1</a>	
TRX to Banana Jack Charging Harness	BINYAE FLASH HOBBY 2pcs T Male to 4.0mm Banana Plug Connector Adaptor Cable14AWG	Amazon	1	\$6.99	\$6.99	<a href="https://www.amazon.com/BINYAE-FLASH-HOBBY-Male-4-0mm/dp/B07KSZV772/ref=sr_1_3?crid=6MZSL2EEN6QE&amp;keywords=banana+plug+to+trx+connector&amp;qid=1705349657&amp;srefix=banana+plug+to+trx+connector%2Ccaps%2C125&amp;sr=8-3">https://www.amazon.com/BINYAE-FLASH-HOBBY-Male-4-0mm/dp/B07KSZV772/ref=sr_1_3?crid=6MZSL2EEN6QE&amp;keywords=banana+plug+to+trx+connector&amp;qid=1705349657&amp;srefix=banana+plug+to+trx+connector%2Ccaps%2C125&amp;sr=8-3</a>	
Brass Inserts Kit	Hiitichi 460 Pcs M2 M3 M4 M5 Female Thread Brass Knurled Threaded Insert Embedment Nuts Assortment Kit	Amazon	1	\$19.89	\$19.89	<a href="https://www.amazon.com/DYWISHKEY-Pieces-Female-Standoff-Assortment/dp/B07MW5P8JH/ref=sr_1_3?keywords=hex%2Bspacers&amp;qid=1677982233&amp;s=industrial&amp;sr=1-3&amp;th=1">https://www.amazon.com/DYWISHKEY-Pieces-Female-Standoff-Assortment/dp/B07MW5P8JH/ref=sr_1_3?keywords=hex%2Bspacers&amp;qid=1677982233&amp;s=industrial&amp;sr=1-3&amp;th=1</a>	
Metric Screw/Nut Kit	Guard4U 480Pcs 12-Size Metric M2 M2.5 M3 Stainless Steel Phillips Pan Head	Amazon	1	\$14.99	\$14.99	<a href="https://www.amazon.com/Guard4U-12-Size-Stainless-Phillips-Assortment/dp/B08LW63JKL/ref=sr_1_3?crid=3GUST8OM5KTR0&amp;keywords=metric+screws+assortment+kit+m2+m2.5+m3+phillips&amp;qid=1705350161&amp;s=industrial&amp;srefix=metric+screws+assortment+kit+m2+m2.5+m3+phillips%2Cindustrial%2C116&amp;sr=1-3">https://www.amazon.com/Guard4U-12-Size-Stainless-Phillips-Assortment/dp/B08LW63JKL/ref=sr_1_3?crid=3GUST8OM5KTR0&amp;keywords=metric+screws+assortment+kit+m2+m2.5+m3+phillips&amp;qid=1705350161&amp;s=industrial&amp;srefix=metric+screws+assortment+kit+m2+m2.5+m3+phillips%2Cindustrial%2C116&amp;sr=1-3</a>	
Camera	Raspberry Pi Camera Board v2 - 8 Megapixels	Adafruit	1	\$29.95	\$29.95	<a href="https://www.adafruit.com/product/3099">https://www.adafruit.com/product/3099</a>	
		Amazon	1		\$0.00		
The below parts are recommended for prototyping							\$21.68
Raspberry Pi 4 Power Supply	Raspberry Pi 4 Power Supply (USB-C) - Black	Canakit	1	\$8.00	\$8.00	<a href="https://www.canakit.com/official-raspberry-pi-4-power-supply-black.html">https://www.canakit.com/official-raspberry-pi-4-power-supply-black.html</a>	
Micro HDMI cable	UGREEN Micro HDMI to HDMI Cable Adapter 4K 60Hz Ethernet	Amazon	1	\$8.99	\$8.99	<a href="https://www.amazon.com/UGREEN-Adapter-Ethernet-Compatible-Raspberry/dp/B06WWQ7KLV/ref=sr_1_9?crid=20C8DHBFGSG5I2&amp;keywords=micro%2Bhdm%2Bcable&amp;qid=1705348026&amp;srefix=micro%2Bhdm%2Bcable%2Ccaps%2C114&amp;sr=8-9&amp;th=1">https://www.amazon.com/UGREEN-Adapter-Ethernet-Compatible-Raspberry/dp/B06WWQ7KLV/ref=sr_1_9?crid=20C8DHBFGSG5I2&amp;keywords=micro%2Bhdm%2Bcable&amp;qid=1705348026&amp;srefix=micro%2Bhdm%2Bcable%2Ccaps%2C114&amp;sr=8-9&amp;th=1</a>	
Jetson Nano Wall Power Supply	COOLM AC 100-240V to DC 5V/4A 20W Charger Plug DC 5.5mm x 2.5 mm (for prototyping)	Amazon	1	\$13.68	\$13.68	<a href="https://www.amazon.com/gp/product/B07RTWD725/ref=ppx_vo_dt_b_asin_title_o02_s007?ie=UTF8&amp;psc=1">https://www.amazon.com/gp/product/B07RTWD725/ref=ppx_vo_dt_b_asin_title_o02_s007?ie=UTF8&amp;psc=1</a>	