

Type	Product Name	Quantity	Price	Link
Microcontroller	ESP32	1	4.69	https://www.digikkey.com/en/products/detail/esspressif-systems/ESP32-WROOM-32U-n16/938172?sr=rs=N4lqTCBcDaliwE4BsBWAIAUJQMzAUMDYmA6gEcDyZasmqQKpoBycSAKYwCigC8AvkAA&fbclid=IwAR2_SGF0IFIMZ3z0WoMs5ZYmFspuewSo5wxTNPn3ivIhtaMsiOkavVnY
.1uF Capacitor	CL21B104KACNNNC	1	0.1	https://www.digikkey.com/en/products/detail/samsung-electro-mechanics/CL21B104KACNNNC/3886757
Push Button	TL2202EEZB	1	0.42	https://www.digikkey.com/en/products/detail/e-switch/TL2202EEZB-GRN-ACT/16020087
IMU	Bosch IMU	1	10.7	https://www.digikkey.com/en/products/detail/bosch-sensortec/BMI088/8634936
100nF Capacitor	CL05A104KA5NNNC	2	0.1	https://www.digikkey.com/en/products/detail/samsung-electro-mechanics/CL05A104KA5NNNC/3886701
Stepper Motor	Neema 17 short body	2	11.99	https://www.amazon.com/STEPPERONLINE-Bipolar-Stepper-22-6oz-Extruder/dp/B00PNE79Q/ref=sr_1_3?cid=3RKR1EQYW51SI&keywords=pancake+stepper+motor&qid=1665207959&eq=eyJxc2MiOiZlLjYlyllwiXNhjoiMydyNSistlnFzcCI6ImUmtkIfIQ%3D&srefix=pancake+stepper+motor%2Caps%2C168&sr=8-3
Battery	18650 LiPo Battery	1	24.99	https://www.amazon.com/DGG-Rechargeable-Battery-EF7BC98Flat-flashlights-Headlights/dp/B0BJ2VSHKJ/ref=sr_1_14?cid=3IVWUP7XBUM&keywords=18650+battery&qid=166614541&eq=eyJxc2MiOiZlLjYlyllwiXNhjoiNy42MylsnFzcCI6ImUmtkIfIQ%3D&srefix=%2Caps%2C141&sr=8-14
USB C Receptacle	USBA110-GF-A	1	1.34	https://www.digikkey.com/en/products/detail/gdt/USBA110-GF-A/1038457
100 Resistor	CRG50805J100R	1	0.45	https://www.digikkey.com/en/products/detail/te-connectivity-amp-connectors/CRG50805J100R/6042980
47.5k Resistor	CRCW080547K0JNEAHP	1	0.25	https://www.digikkey.com/en/products/detail/vishay-dale/CRCW080547K0JNEAHP/2222394
22.1K Resistor	CRCW080522K0JNEAHP	1	0.25	https://www.digikkey.com/en/products/detail/vishay-dale/CRCW080522K0JNEAHP/2222392
Protection Diodes	SP0503BAHTG	3	0.88	https://www.digikkey.com/en/products/detail/littelfuse-inc/SP0503BAHTG/1154322
LDO	TLV70433DBVT	1	1.3	https://www.digikkey.com/en/products/detail/texas-instruments/TLV70433DBVT/2441464
100 Resistor	CRG50805J100R	1	0.45	https://www.digikkey.com/en/products/detail/te-connectivity-amp-connectors/CRG50805J100R/6042980
22uF Capacitor	CL21A226MQQNNNG	1	0.13	https://www.digikkey.com/en/products/detail/samsung-electro-mechanics/CL21A226MQQNNNG/3894436
1uF Capacitor	CL21B105KAFNNNE	1	0.1	https://www.digikkey.com/en/products/detail/samsung-electro-mechanics/CL21B105KAFNNNE/3886724
Schottky Diode	B0520WS-7-F	1	0.37	https://www.digikkey.com/en/products/detail/diodes-incorporated/B0520WS-7-F/775830
H-Bridge/Motor Controller IC	DRV8846RGET	2	3.41	https://www.digikkey.com/en/products/detail/texas-instruments/DRV8846RGET/4948845
10uF Capacitor	CL21A106KOQNNNE	2	0.1	https://www.digikkey.com/en/products/detail/samsung-electro-mechanics/CL21A106KOQNNNE/3886754
.1uF Capacitor	CL21B104KACNNNC	2	0.1	https://www.digikkey.com/en/products/detail/samsung-electro-mechanics/CL21B104KACNNNC/3886757
22uF Capacitor	CL21A226MQQNNNG	2	0.13	https://www.digikkey.com/en/products/detail/samsung-electro-mechanics/CL21A226MQQNNNG/3894436
500m Resistor	RL1220S-R50-F	4	0.29	https://www.digikkey.com/en/products/detail/susumu/RL1220S-R50-F/567251
Motor Connector	Molex	3	7.45	https://www.amazon.com/Molex-4-Circuits-Recapable-Terminal-STANDARD/dp/B079CR36VX/ref=pf_rd_p_lpo_17pd_rd_w_ZABDY&content-id=amzn1_sym_116f529c-aad4-4763-b2b6-4d614ec7dc00&pf_rd_p=116f529c-aad4-4763-b2b6-4d614ec7dc00&pf_rd_r=QFABXY8XDTE5904KNPC&pd_rd_wg=Voyym&pd_rd_r=52ac0d7f-03e0-4b5c-8487-89d941d49630&pd_rd_i=B079CR36VX&pvc=1
USB to UART Bridge	CP2103-GM	1	6.76	https://www.digikkey.com/en/products/detail/silicon-labs/CP2103-GM/769478
Transistor	BC847C-13-F	2	0.21	https://www.digikkey.com/en/products/detail/diodes-incorporated/BC847C-13-F/4471057
Total:			76.96	