| Part | Price |
| --- | --- |
| Large stepper motor(1) (<https://www.amazon.com/Stepper-Motor-269oz-Length-Diameter/dp/B07Y81FF3V/ref=d_sims_dp_d_dex_ai_speed_loc_multi_high_best_sell_sccl_2_3/137-0674451-8667427?pd_rd_w=RIsVO&content-id=amzn1.sym.34c28eac-99fe-47a9-aa3d-fae22a6d05d1&pf_rd_p=34c28eac-99fe-47a9-aa3d-fae22a6d05d1&pf_rd_r=N6KB6TMQ2EG0TZTAH0Z4&pd_rd_wg=ibh1z&pd_rd_r=b2a4ca28-fac6-4032-bd8c-b4103ff40055&pd_rd_i=B07Y81FF3V&th=1>) | $28 |
| Accelerometer Gyroscope (1) (<https://www.amazon.com/HiLetgo-MPU-6050-Accelerometer-Gyroscope-Converter/dp/B00LP25V1A/ref=sr_1_3?keywords=MPU-6050&qid=1694635708&sr=8-3&th=1>) | $9.99 |
| 20Kg Larger servo (1) (<https://www.amazon.com/DS3218-Torque-Digital-Waterproof-Rotation/dp/B07FMBBPD2/ref=sr_1_21_sspa?crid=2ZWW8BBD9CZAH&keywords=8kg+servo+motor&qid=1682384010&sprefix=8kg+servo+moto%2Caps%2C107&sr=8-21-spons&ufe=app_do%3Aamzn1.fos.006c50ae-5d4c-4777-9bc0-4513d670b6bc&psc=1&spLa=ZW5jcnlwdGVkUXVhbGlmaWVyPUEyMDdCNEdJMko2N0pRJmVuY3J5cHRlZElkPUEwOTExMTU2WlVFSEdPWFdYTVlFJmVuY3J5cHRlZEFkSWQ9QTAzMjAzNjYxS0hNNVJDRDRENFQzJndpZGdldE5hbWU9c3BfbXRmJmFjdGlvbj1jbGlja1JlZGlyZWN0JmRvTm90TG9nQ2xpY2s9dHJ1ZQ==>) | $52.99 |
| Flex Sensors (1) (<https://www.amazon.com/Adafruit-Long-Flex-sensor-ADA182/dp/B01BNNNS5Q/ref=sr_1_1?crid=28239O9DSWXER&keywords=long+flex+sensor&qid=1694915873&sprefix=long+flex+sensor%2Caps%2C138&sr=8-1>) | $18.99 |
| Potentiometers (1) (<https://www.amazon.com/Taiss-Potentiometer-potentiometers-Assortment-Terminals/dp/B0B3126K2M/ref=sr_1_3?crid=274PMJ1SPGN6Y&keywords=potentiometer&qid=1694914338&sprefix=potenti%2Caps%2C132&sr=8-3&th=1>) | $8.66 |
| MCP Analog to digital converter [(2) https://www.amazon.com/Adafruit-MCP3008-8-Channel-Interface-Raspberry/dp/B00NAY3RB2/ref=sr\_1\_3?crid=1EU6NXBST0Y8G&keywords=MCP3008+analog-to-digital+converter&qid=1694637162&sprefix=mcp3008+analog-to-digital+converter%2Caps%2C98&sr=8-3](https://www.amazon.com/Adafruit-MCP3008-8-Channel-Interface-Raspberry/dp/B00NAY3RB2/ref=sr_1_3?crid=1EU6NXBST0Y8G&keywords=MCP3008+analog-to-digital+converter&qid=1694637162&sprefix=mcp3008+analog-to-digital+converter%2Caps%2C98&sr=8-3) | $7.99 x 2 = $15.98 |
| Jumper Wires (1)  <https://www.amazon.com/IZOKEE-Solderless-Breadboard-Arduino-Project/dp/B08151TQHG/ref=sr_1_4?crid=3SUOUHSXDETZM&keywords=arduino+wires&qid=1695927643&sprefix=arduino+wires%2Caps%2C93&sr=8-4> | $8.99 |
| Short Flex Sensor(1)  <https://www.adafruit.com/product/1070> | $16.75 (with shipping) |
| Thrust Needle Roller Bearings <https://www.amazon.com/Bearings-Industrial-Carrying-Capacity-Stiffness/dp/B09CG2TFJM/ref=sr_1_14?crid=G7PRDP8XB88F&keywords=needle+roller+bearings&qid=1697130075&sprefix=needle+roller+bearings%2Caps%2C115&sr=8-14> | $9.99 |
| 58 Pcs Plastic Gears <https://www.amazon.com/JLMetal-58pcs-Plastic-Gears-Module/dp/B07JWDF71T/ref=sr_1_1?keywords=plastic+gears&qid=1698265481&sr=8-1> | $7.50 |
| Roller Bearings <https://www.amazon.com/Bearings-Industrial-Carrying-Capacity-Stiffness/dp/B09CG2TFJM/ref=sr_1_14?crid=G7PRDP8XB88F&keywords=needle+roller+bearings&qid=1697130075&sprefix=needle+roller+bearings%2Caps%2C115&sr=8-14> | $9.99 |
| 40Kg servos <https://www.amazon.com/MoreOneRC-Stainless-Waterproof-Standard-Digital/dp/B0BLSGD8BT/ref=sr_1_10?crid=2XO82W502VRSE&keywords=strong%2Btorque%2Bservo%2Bmotors&qid=1701190063&sprefix=strong%2Btorque%2Bservo%2Bmotors%2Caps%2C658&sr=8-10&th=1> | $24.99 x 3 |
| USB A to A <https://www.amazon.com/Monoprice-1-5ft-24AWG-Cable-Plated/dp/B009GUXG92/ref=sr_1_4?crid=3A67VIX5DZ5OF&keywords=usb%2Bto%2Busb&qid=1701288180&sprefix=usb%2Bto%2Busb%2Caps%2C91&sr=8-4&th=1> | $2.61 |
| Stainless Steel Rods <https://www.amazon.com/VictorsHome-Stainless-Crafts-Helicopter-Airplane/dp/B09636CL3N/ref=sr_1_3?keywords=metal%2Brods&qid=1701640504&sr=8-3&th=1> | $6.99 |
| Power Supply Adapter <https://www.amazon.com/JOYLIT-100-240V-Switching-Adapter-Flexible/dp/B015G8E7JU?th=1> | $17.99 |
| Capacitor Set <https://www.amazon.com/BOJACK-Capacitor-Multilayer-Monolithic-Assortment/dp/B085RDTCCV/ref=sr_1_4?crid=2IZP7QIRYT3AR&keywords=0.1%2Bmicro%2Bfarad%2Bcapacitor&qid=1705266450&sprefix=0.1%2Bmicro%2Bfara%2Caps%2C148&sr=8-4&th=1> | $9.99 |
| Raspberry Pi 3 A+ <https://www.amazon.com/Raspberry-Pi-3-Computer-Board/dp/B07KKBCXLY> | $34.99 |
| High Torque Metal Gear Micro servos  [Micro Servo - High Powered, High Torque Metal Gear [TowerPro MG92B] : ID 2307 : $11.95 : Adafruit Industries, Unique & fun DIY electronics and kits](https://www.adafruit.com/product/2307#description) | $69.06 |
| Rotary Encoder  [Amazon.com: Aideepen 600P/R Rotary Encoder, AB 2 Phase Incremental Rotary Encoder 6mm Shaft 5V-24V Wide Voltage : Industrial & Scientific](https://www.amazon.com/Aideepen-Encoder-5V-24V-Incremental-Rotary/dp/B01MZ4V1XP/ref=sr_1_8?crid=31BNOSND4BI55&keywords=precise+rotary+encoder&qid=1706122997&sprefix=precise+rotary+encode%2Caps%2C87&sr=8-8) | $17.99 |
| Wire Connectors  [Crweety 100PCS Wire Connectors Nuts Electric Wire Caps Insulating Insert Twist Electrical Wire Connectors Colorful Wire Assortment Nuts for Quick Connection: Amazon.com: Industrial & Scientific](https://www.amazon.com/Crweety-Connectors-Insulating-Electrical-Assortment/dp/B09WDS2LP7/ref=sr_1_4?crid=1UXZU3G33SCJ9&keywords=wire%2Bcaps&qid=1706122779&sprefix=wire%2Bcap%2Caps%2C161&sr=8-4&th=1) | $5.99 |
| Power Adapter  <https://www.amazon.com/JacobsParts-Adapter-Extension-Security-Electronics/dp/B00QJCU580/ref=sr_1_139?crid=2WMLREB6AGLAD&keywords=12v+ac+power+cord+extension&qid=1706120162&sprefix=12v+ac+power+cord+extension%2Caps%2C87&sr=8-139> | $4.99 |
| 3.8ft Power Cord  [Amazon.com: ALITOVE 3.8ft Power Cord 18 AWG, 3 Prong Universal AC Power Supply Adapter Transformer Cable, 250V 10A Replacement Power Cords for Power Tools, 3 x 0.75㎜² 1.15 Meters (2-Pack) : Electronics](https://www.amazon.com/ALITOVE-Universal-Adapter-Transformer-Replacement/dp/B07CWS4BGC/ref=sr_1_5?crid=1ZMCGUQJPC7H4&keywords=ASIN+B07CWS4BGC&qid=1706541883&sprefix=asin+b07cws4bgc%2Caps%2C197&sr=8-5) | $8.99 |
| 12V 20A Power Supply  [Amazon.com: ALITOVE DC 12V 20A 240W Power Supply Transformer Switch AC 110V / 220V to DC 12V 20amp Switching Adapter Converter LED Driver for LED Strip Light CCTV Camera Security System : Electronics](https://www.amazon.com/ALITOVE-Transformer-Switching-Converter-Security/dp/B078RTV41D/ref=sr_1_3?keywords=12%2Bvolt%2Bpower%2Bsupply%2B20%2Bamp&qid=1706475225&sr=8-3&th=1) | $22.99 |
| Arduino MEGA  [Amazon.com: ELEGOO MEGA R3 Board ATmega 2560 + USB Cable Compatible with Arduino IDE Projects RoHS Compliant : Electronics](https://www.amazon.com/ELEGOO-ATmega2560-ATMEGA16U2-Arduino-Compliant/dp/B01H4ZDYCE/ref=sr_1_1_sspa?keywords=elegoo+arduino+mega&qid=1707270996&sr=8-1-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&psc=1) | $20.99 |
| Arduinio UNO  [Amazon.com: ELEGOO UNO R3 Board ATmega328P with USB Cable(Arduino-Compatible) for Arduino : Electronics](https://www.amazon.com/ELEGOO-Board-ATmega328P-ATMEGA16U2-Compliant/dp/B01EWOE0UU/ref=sr_1_5?keywords=elegoo+arduino+mega&qid=1707271030&sr=8-5) | $16.99 |
| 24V 5A Power Supply for Shoulder <https://www.amazon.com/SHNITPWR-Switching-Transformer-Converter-Channels/dp/B08BHY7VDR/ref=sr_1_19?crid=GS0XLL564SW6&dib=eyJ2IjoiMSJ9.DPNoDaHzf79gsfX9JTIPJSb2IfnrCp4zSlI9BVruNQs5B_ru20VpkiGnNj-uW0crLZG54RyxpWmuI4W5zDKKSgof6mDACqd6MHoPc8p9NdTSQu5KgJhi_O4RU8dWPY4oXbrsVNJzKT87STHsoB6Ktb0mB4bsbRxOtmRxjEplLNVepAKpyMN5-K63lX5kfWjJFRUcZXRP5KZplXo-DJQKadB_dUPhJTvutwrGHCae0naAiWT8JKJzNwD0F-jSGTLHs1bb7FXQOs7yWIBFemdBHKF4KXGJqN1KsuPB0yxMBV4.Lz0hioHC_C8uEb0K2jjZFcPZqn_V_mfqixIjjrJXmB8&dib_tag=se&keywords=25v%2B5a%2Bpower%2Bsupply&qid=1713213191&s=electronics&sprefix=25v%2B5a%2Bpower%2Bsupply%2Celectronics%2C102&sr=1-19&th=1> | $16.99 |
| Bus Bar Terminals  [Amazon.com: 12 Terminals Bus Bar, Ampper 5.3" Nickle Plated Brass Power/Ground Distribution Block Battery BusBar Junction for Car Vehicle Rv Truck Marine Boat Audio Amplifier and More (1 Pair, Red & Black) : Automotive](https://www.amazon.com/Terminals-Ampper-Distribution-Junction-Amplifier/dp/B09T6L3K4N/ref=sr_1_10?crid=2V43XALKS77RQ&dib=eyJ2IjoiMSJ9.E2841kP8E4K1AKJaJcp7zmB6XL9cpU0HzszUIv9OY-JLjOpqswAEaYgdKxGbNSmzN-n8AM2VdNqLob4kmq5eObGvWRsWbnbpKfHvzUCElNTecgkRCydTVNG70UovS9u2N1IwMdGj6QReJ9tORUwMXmVrRKQxCHdULnuFDM3AWgC6cZHnPXwbWRLE_zBuPdhhNYAEXj6rasHmMl7vKZ5bctEu2RJeabClEHUt0kUd50yKJP6fYgtay0He4EfDUQ_aE-hErCatxwL-kA7Rvw6pyrbULFf9H0NqOhCRT9jkyX4.qXzBNOfhehjbBX6TDT0WdaPk08m0v9TpPFKct1KYS_M&dib_tag=se&keywords=bus%2Bbar&qid=1710099582&s=automotive&sprefix=bus%2Bbar%2Cautomotive%2C89&sr=1-10&th=1) | $23.99 |
| Battery Holders  [Amazon.com: LAMPVPATH (Pack of 4) 3 AA Battery Holder with Switch, 4.5V Battery Holder with Switch, 3X 1.5V AA Battery Holder with Leads and Switch : Electronics](https://www.amazon.com/dp/B07C6XC3MP?ref_=cm_sw_r_cso_cp_apin_dp_6Q1VCX8PDQ5WQ216508J&starsLeft=1) | $7.99 |
| Paint supplies | $15 |
|  |  |
|  |  |
| Total | $567 |