| Item | P/N | Description | MFR | Source | Qty | Usage | Total Cost |
|---|---|---|---|---|---|---|---|
| 1 | INR-18650-P30B | 3.7V 18650 cell | Molicel | 18650BatteryStore.com | 4 | Power pack | 28 |
| 2 | a15062200ux0651 | DPDT toggle switch | Uxcell | Amazon.ca | 2 | Power switches | 16 |
| 3 | 114090052 | Battery holder 18650 4 cells | Seeed Technology Co | Digikey | 1 | Battery holder | 2 |
| 4 | 39367pb02 | Wheel 56 X 14 | Lego Group | Bricklink.com | 4 | Mechanical structure | 16 |
| 5 | KLF014 | Fuse holder | Kolacen | Digikey | 1 | Power | 1 |
| 6 | DC001 | 12V Male+Female 2.1x5.5MM DC Power Jack Plug Adapter | Daykit | Amazon.ca | 1 | Power plugs | 2 |
| 7 | Generic | Radial Electrolytic Capacitor, 100uF, 16V | Generic | Amazon.ca | 1 | Stepper driver circuit | 0.5 |
| 8 | CER-795 | CERRXIAN 90 Degree USB A to B Cable | Lemeng | Amazon.ca | 1 | Pi to Arduino cable | 6.5 |
| 9 | SJ-15 | DRV8825 Stepper Motor Driver | SazkJere | Amazon.ca | 1 | Stepper driver | 5 |
| 10 | CA-EL-CP-006 | Mini Breadboard | Elegoo | Amazon.ca | 1 | Stepper driver circuit | 2 |
| 11 | X00413AO5J | Maixbomr Right Angle USB C to 2 Pin Bare Wire | Maixbomr | Amazon.ca | 1 | Pi power cable | 6 |
| 12 | 39100-1910 | Terminal blocks clear, 12 pos, 8 mm pitch | Molex | Mouser | 2 | Power connections | 5 |
| 13 | HS-225BB | Cored Nylon Gear 24T Analog Mini Servo | Hitec | Robotshop | 1 | Direction motor | 30 |
| 14 | RB-Ard-34 | Arduino Uno R3 USB Microcontroller | Arduino | Robotshop | 1 | Microcontroller | 28 |
| 15 | PI5-8GB-STR128-C4-BLK | Raspberry Pi 5 Starter Kit - Turbine Black | Raspberry Pi | Canakit | 1 | Main computer | 225 |
| 16 | PYBE30-Q24-S5-DIN | DC-DC converter 12V - 5V 6amps 30W | CUI | Digikey | 1 | Generate 5V from battery | 57 |
| 17 | B099JXQN6K | Polymaker PLA Filament 1.75 mm | Polymaker | Amazon.ca | 1 | Mechanical structure | 32 |
| 18 | PRN-01 | 3D printed base plate | Double-X | 3D printed | 1 | Mechanical structure | 0 |
| 19 | PRN-02 | 3D printed middle plate | Double-X | 3D printed | 1 | Mechanical structure | 0 |
| 20 | PRN-03 | 3D printed top plate | Double-X | 3D printed | 1 | Mechanical structure | 0 |
| 21 | PRN-04 | 3D printed coupler | Double-X | 3D printed | 1 | Mechanical structure | 0 |
| 22 | PRN-05 | 3D printed servo holder | Double-X | 3D printed | 1 | Mechanical structure | 0 |
| 23 | PRN-06 | 3D printed stepper holder | Double-X | 3D printed | 1 | Mechanical structure | 0 |
| 24 | PRN-07 | 3D printed bumper | Double-X | 3D printed | 1 | Mechanical structure | 0 |
| 25 | PRN-08 | 3D printed camera holder | Double-X | 3D printed | 1 | Mechanical structure | 0 |
| 26 | PRN-09 | 3D printed direction rods | Double-X | 3D printed | 1 | Mechanical structure | 0 |
| 27 | PRN-10 | 3D printed direction tabs | Double-X | 3D printed | 1 | Mechanical structure | 0 |
| 28 | 17HS4023 | Stepper motor NEMA 17 | Pancake Motor | Abra electronics | 1 | Drive motor | 27 |
| 29 | 527-1 | Raspberry Pi Camera module 3 wide + cable | Raspberry | Pishop | 1 | Camera | 49 |
| 30 | 3737 | Axle 10L | Lego Group | Bricklink.com | 2 | Rear axles | 0.5 |
| 31 | 87083 | Axle 4L with stop | Lego Group | Bricklink.com | 2 | Front axles | 0.5 |
| 32 | 3705 | Axle 4L | Lego Group | Bricklink.com | 1 | Stepper main axle | 0.25 |
| 33 | 3713 | Bushing | Lego Group | Bricklink.com | 8 | Mechanical structure | 0.5 |
| 34 | 4265 | half bushing | Lego Group | Bricklink.com | 4 | Mechanical structure | 0.25 |
| 35 | 6589 | Bevel gear 12 tooth | Lego Group | Bricklink.com | 3 | Mechanical structure | 0.25 |
| 36 | 62821b | Gear differential 28 tooth bevel | Lego Group | Bricklink.com | 1 | Mechanical structure | 1 |
| 37 | 64179 | Frame | Lego Group | Bricklink.com | 1 | Mechanical structure | 0.5 |
| 38 | JF-0039 | SPDT toggle switch | Jianfeng Store | Amazon.ca | 1 | Selector switch | 2 |
| 39 | PBS-110-XR | SPST push button momentary | Twidec | Amazon.ca | 1 | Start button | 1.7 |
| 40 | PRN-11 | 3D printed switch holder | Double-X | 3D printed | 1 | Mechanical structure | 0 |
| 41 | LS-1280 | M3 socket head screws, multiple length | HPGJLEE | Amazon.ca | 33 | Mechanical structure | 0.5 |
| | | | | | | **Total** | **545.95** |