

Project:

Biped Droid

Part	Qty	Unit Price (£'s)	Cost (£'s)	Supplier	Comments
1N4006 Rectifier Diode 800V	9	£0.14	£1.26	ebay	Sunk cost
2mm x 10mm Steel Pozi Screws	124	£0.03	£3.22	Amazon	Can be re-used on other projects
2.4G Wireless Serial Transparent Transceiver Module	1	£2.45	£2.45	DX	Can be re-used on other projects
6mm Conductive Copper Foil Tape	10	£5.67	£0.28	ebay	Sunk cost - cost per cm
Arduino NANO EVERY	1	£12.50	£12.50	Amazon	Can be re-used on other projects
Batteries 18650 Lithium 3.7v 3000mAh	2	£3.25	£6.50	ebay	Can be re-used on other projects
Button Switch 6x6x5mm	2	£0.02	£0.05	ebay	Sunk cost
Capacitor 220uF 10V	1	£0.38	£0.38	RS Components	Sunk cost
DC Power Socket	1	£0.15	£0.15	ebay	Sunk cost
MPU-6050 3-axis accelerometer	1	£0.99	£0.99	ebay	Can be re-used on other projects
PCA9685 16-channel driver board	1	£4.70	£4.70	ebay	Can be re-used on other projects
Pin Header Strips Female 1 x 40	2	£0.28	£0.01	ebay	Sunk cost
Pin Header Strips Male 1 x 40	2	£0.99	£0.05	ebay	Sunk cost
Resistors 1/4 W	4	£0.03	£0.11	RS Components	Sunk cost
Servo Motor MG90S Metal Gear	1	£1.91	£1.91	ebay	Can be re-used - SEE NOTE BELOW
Servo Motor MG996R Metal Gear Digital	10	£3.97	£39.70	ebay	Can be re-used on other projects
Toggle Switch SPDT 5A@250 AC	2	£0.95	£1.90	RS Components	Can be re-used on other projects
VL53L0X time of flight laser range finder	1	£3.95	£3.95	ebay	Can be re-used on other projects
WS2812B RGB LED	7	£0.19	£1.33	Amazon	Sunk cost
1.75mm PLA Filament 1kg reel	0.25	£9.00	£2.25	ebay	Sunk cost
2 part epoxy resin glue	1	£1.00	£1.00	PoundLand	Sunk cost
Total:			£84.69		
Re-use:			£77.89		Can be re-used on other projects
Sunk:			£6.81		Sunk cost

Notes:

- Prices are indicative. Bulk purchases may be required to achieve figures. ie. LEDs, screws, etc
- Rechargeable batteries will require a charger; not included
- Use of ribbon cable for wiring is an estimate
- Consumables like solder, flux, hook-up wire, etc are not included here, but are needed.
- 3-D printer is an estimate, but 1kg reel will do the job.

Ensure you purchase digital MG996R servos, as some cheap clones are analogue, inaccurate and jump on power-on