

Project:

HexBot2

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Part	Qty	Unit Price (£'s)	Cost (£'s)	Supplier	Comments
0.96" OLED 128x64 Display I2C, IZOKEE	1	£3.66	£3.66	Amazon	Can be re-used on other projects
1N4006 Rectifier Diode 800V	6	£0.14	£0.84	ebay	Sunk cost
2mm x 10mm Steel Pozi Screws	1	£0.03	£0.03	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
Battery 18650 spring contacts, sourcing map	2	£0.31	£0.62	Amazon	Sunk cost - cost per cm
Button Switch 6x6x5mm	2	£0.02	£0.05	ebay	Sunk cost
DC Power Plug	1	£0.29	£0.29	ebay	Can be re-used on other projects
DC Power Socket 5.5mm Ø	1	£0.15	£0.15	ebay	Sunk cost
ESP32 Dev Kit ESP-WROOM-32 CP2102	1	£4.30	£4.30	ebay	Can be re-used on other projects
M3 x 30mm Nylon C-Sunk screws	1	£0.07	£0.07	RS Components	Can be re-used on other projects
Pin Header Strips Female 1 x 40	1	£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	2	£0.03	£0.05	RS Components	Sunk cost
Servo Motor MG90D Metal Gear Digital	12	£4.90	£58.80	HobbyKing	Can be re-used on other projects
Servo Motor micro servo digital GH-S37D	1	£2.30	£2.30	Banggood	Can be re-used on other projects
Toggle Switch SPDT 5A@250 AC	1	£0.95	£0.95	RS Components	Can be re-used on other projects
VL53L1X time of flight laser range finder	1	£5.16	£5.16	AliExpress	Can be re-used on other projects
WS2812B RGB LED	13	£0.19	£2.47	Amazon	Sunk cost
1.75mm PLA Filament 1kg reel	0.25	£24.00	£6.00	3DPrintz	Sunk cost
2-part epoxy Gorilla glue	0.5	£3.90	£1.95	Wilko	Sunk cost
		Total:	£94.24		
		Re-use:	£82.11		Can be re-used on other projects
		Sunk:	£12.13		Sunk cost

Notes:

List does not include parts for the Wii Numchuk WiFi controller, see separate project

Prices are indicative. Bulk purchases may be required to achieve figures. ie. LEDs, screws, etc

Rechargeable batteries will require a charger; not included

Consumeables 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.