

Project:

Omni-Bot 3x3

Issued: 26/02/2025

Part	Qty	Unit Price (£'s)	Cost (£'s)	Supplier	Comments	Link
0.66" 64x48 3.3V OLED Display Module I2C	1	5.99	£5.99	Amazon	Sunk cost	Link
2mm x 10mm Steel Pozi Screws - silver	33	£0.03	£0.85	ebay	Can be re-used on other projects	Link
48mm Omni Wheel for LEGO NXT and Servo Motor	3	£6.60	£19.80	Active Robots	Can be re-used on other projects	Link
Batteries 18650 Lithium 30Q 3.7v 3000mAh	2	£6.71	£13.42	AliExpress	Can be re-used on other projects	Link
Battery 18650 spring contacts, sourcing map	2	£0.31	£0.62	Amazon	Sunk cost - cost per cm	Link
Button Switch 6x6x5mm 4 pin tactile	2	£0.03	£0.06	Amazon	Sunk cost	Link
DC-DC MP1584 Step Down Power Supply Module 3A Adjustable	1	£0.73	£0.73	AliExpress	Sunk cost	Link
DC 6v 130rpm JGA25-370 motor with gearbox, 25mm extended shaft	3	£13.10	£39.30	Amazon	Can be re-used on other projects	Link
DC Power Socket 5.5mm Ø2.1	1	£0.38	£0.38	ebay	Sunk cost	Link
DRV8833 Motor Drive Module H-bridge	3	£1.21	£3.63	Amazon	Can be re-used on other projects	Link
ESP32 DevKitC NodeMCU ESP-WROOM-32S	1	£5.00	£5.00	Amazon	Can be re-used on other projects	Link
GL5537 photo resistors	2	£1.12	£2.24	ebay	Sunk cost	Link
ICM-42607-P 6-axis motion sensor	1	£6.05	£6.05	AliExpress	Sunk cost	Link
M3 x 10mm Nylon C-Sunk screws	6	£0.16	£0.97	Amazon	Can be re-used on other projects	Link
Pin Header Strips Female 1 x 40	2	£0.90	£1.80	ebay	Sunk cost	Link
Pin Header Strips Male 1 x 40	1	£0.80	£0.80	ebay	Sunk cost	Link
RCWL-1601 Ultrasonic Distance Sensor	3	£3.90	£11.70	PiHut	Can be re-used on other projects	Link
Resistors 1/4 W	4	£0.03	£0.11	RS Components	Sunk cost	
Toggle Switch SPDT 5A@250 AC	1	£0.79	£0.79	Amazon	Sunk cost	Link
WS2812B RGB LED chips, white 5050SMD	15	£0.15	£2.25	Amazon	Sunk cost	Link
Soft-melt Glue	1	£0.30	£0.30	Wilko	Sunk cost	
1.75mm PLA Filament 1kg reel - Voxelab +/- 0.02mm	0.2	£14.00	£2.80	Amazon	Sunk cost	Link
2-part epoxy glue 30ml tubes	0.5	£3.90	£1.95	ScrewFix	Sunk cost	Link
Wire wrapping wire, 30AWG 8 colours, 250m spools	0.05	£8.00	£0.40	Amazon	Sunk cost - cost per spool	Link
			Total:			
			Re-use:	£94.68	Can be re-used on other projects	
			Sunk:	£27.26	Sunk cost	

Notes:

- Prices are indicative, postage not included. Bulk purchases may be required to achieve figures. ie. LEDs, screws, etc
- Web links are used as a product search guide, may not be available long term
- Rechargeable batteries will require a charger
- 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.