

**Project:**

**Uni-Bot**

Issued: 04/06/2023

Part	Qty	Unit Price (£'s)	Cost (£'s)	Supplier	Comments	Link
Batteries 18650 Lithium 3.7v 3000mAh	3	£2.85	£8.55	AliExpress	Can be re-used on other projects	<a href="#">Link</a>
Battery 18650 spring contacts, sourcing map	3	£0.31	£0.93	Amazon	Sunk cost - cost per cm	<a href="#">Link</a>
Battery Charger - 2 slot Lii-202 18650	1	£6.99	£6.99	ebay	Can be re-used on other projects	
BLDC gimbal motor iPower GNB2804H-100T	3	£16.29	£48.87	AliExpress	Can be re-used on other projects	<a href="#">Link</a>
DC-DC MP1584 Step Down Power Supply Module 3A Adjustable	1	£0.73	£0.73	AliExpress	Sunk cost	<a href="#">Link</a>
Deans T plug connector	1	£0.60	£0.60	Amazon	Can be re-used on other projects	<a href="#">Link</a>
DRV8313 Simple FOC Mini v1.0 DC Brushless Motor Driver Board	3	£3.07	£9.21	AliExpress	Can be re-used on other projects	<a href="#">Link</a>
ESP32 DevKitC ESP-WROOM-32S	1	£4.48	£4.48	AliExpress	Can be re-used on other projects	<a href="#">Link</a>
M3 x 30mm Nylon C-Sunk screws	36	£0.07	£2.46	RS Components	Can be re-used on other projects	<a href="#">Link</a>
MPU-6050 3-axis accelerometer GY-521	1	£2.00	£2.00	Amazon	Can be re-used on other projects	<a href="#">Link</a>
Nut hex heavy stainless steel A2	20	£0.30	£6.00	Amazon	Can be re-used on other projects	<a href="#">Link</a>
O-Ring Nitrile Rubber O-Rings 60mm OD 48.6mm ID 5.7mm Width	1	£0.90	£0.90	Amazon	Can be re-used on other projects	<a href="#">Link</a>
Pin Header Strips Female 1 x 40	4	£0.90	£3.60	ebay	Sunk cost	<a href="#">Link</a>
Pin Header Strips Male 1 x 40	1	£0.80	£0.80	ebay	Sunk cost	<a href="#">Link</a>
Resistors 1/4 W	2	£0.03	£0.05	RS Components	Sunk cost	<a href="#">Link</a>
Screw Pozi Pan Head M5 Machine Screws - A2	20	£0.29	£5.80	Amazon	Can be re-used on other projects	<a href="#">Link</a>
Toggle Switch SPDT 5A@250 AC	1	£0.79	£0.79	Amazon	Can be re-used on other projects	<a href="#">Link</a>
WS2812B RGB LED	2	£0.15	£0.30	Amazon	Sunk cost	
1.75mm PLA Filament 1kg reel	0.125	£24.00	£3.00	3DPrintz	Sunk cost	
2-part epoxy Gorilla glue	0.5	£3.90	£1.95	Wilko	Sunk cost	
		Total:	£108.00			
		Optional:	£6.99		Can be re-used on other projects	
		Re-use:	£94.05		Can be re-used on other projects	
		Sunk:	£6.96		Sunk cost	

**Notes:**

This list does not contain items needed for the Wi-Fi transceiver; see separate project  
 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, only use ones for 18650 batteries  
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.