

Project:

SpidaBot

Issued: 12/02/2024

Part	Qty	Unit Price (£'s)	Cost (£'s)	Supplier	Comments	Link
1N4006 Rectifier Diode 800V	8	£0.04	£0.32	Amazon	Sunk cost - cost per cm	Link
2mm x 10mm Steel Pozi Screws - silver	1	£0.03	£0.03	ebay	Can be re-used on other projects	Link
Batteries 18650 Lithium 3.7v 3000mAh	2	£2.85	£5.70	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
Battery Charger - 2 slot Lii-202 18650	1	£13.99	£13.99	ebay	Can be re-used on other projects	Link
Button Switch 6x6x5mm 4 pin tactile	2	£0.03	£0.06	Amazon	Sunk cost	Link
Capacitor 470uF 16V	1	£0.38	£0.38	RS Components	Sunk cost	Link
DC Power Socket 5.5mm Ø2.1	1	£0.38	£0.38	ebay	Sunk cost	Link
ESP32 CAM + USB development board	1	£9.99	£9.99	Amazon	Can be re-used on other projects	Link
ESP32 DevKitC NodeMCU ESP-WROOM-32S	1	£4.48	£4.48	AliExpress	Can be re-used on other projects	Link
Mini 3A DC-DC Converter step down	1	£0.80	£0.80	AliExpress		Link
MPU-6050 3-axis accelerometer GY-521	1	£2.00	£2.00	Amazon	Can be re-used on other projects	Link
PCA9685 16-channel driver board	2	£5.25	£10.49	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	2	£0.80	£1.60	ebay	Sunk cost	Link
Resistors 1/4 W	2	£0.03	£0.05	RS Components	Sunk cost	
Servo Motor MG92B Metal Gear Digital	18	£8.00	£144.00	Pi Hut	Can be re-used on other projects	Link
Servo Motor micro servo SG51R nylon gears	2	£4.00	£6.99	Pi Hut	Can be re-used on other projects	Link
Toggle Switch SPDT 5A@250 AC	1	£0.79	£0.79	Amazon	Can be re-used on other projects	Link
VL53L0X time of flight laser range finder	1	£3.95	£3.95	Amazon	Can be re-used on other projects	Link
Wii Classic Pro Gamepad - Wired Game Controller	1	£11.39	£11.39	Amazon	Can be re-used on other projects	Link
WS2812B RGB LED chips, white 5050SMD	10	£0.15	£1.50	Amazon	Sunk cost	Link
1.75mm PLA Filament 1kg reel - Voxelab +/- 0.02mm	0.25	£14.00	£3.50	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:			
			Optional:	£13.99	Can be re-used on other projects	
			Re-use:	£190.61	Can be re-used on other projects	
			Sunk:	£12.56	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
- 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.