

Project:

QuadAuto(ESP32) MkII

Robot only

Issued: 14/02/2026

Part	Qty	Unit Price (£'s)	Cost (£'s)	Supplier	Comments	Link
1N4006 Rectifier Diode 800V	8	£0.03	£0.28	Amazon	Sunk cost - cost per cm	Link
2mm x 10mm Steel Pozi Screws - silver	58	£0.03	£1.65	Amazon	Can be re-used on other projects	Link
Batteries 18650 Lithium 3.7v 3000mAh flat top 30Q	2	£6.00	£11.99	Amazon	Can be re-used on other projects	Link
Battery 18650 spring contact sets, sourcing map	2	£0.63	£1.26	Amazon	Sunk cost - cost per cm	Link
Button Switch 6x6x5mm 4 pin tactile	1	£0.04	£0.04	Amazon	Sunk cost	Link
DC Power Socket 5.5mm Ø2.1	1	£0.84	£0.84	Amazon	Sunk cost	Link
ESP32-DevKitC NodeMCU ESP-WROOM-32S, 38-pin	1	£4.48	£4.48	Amazon	Can be re-used on other projects	Link
Pin Header Strips Female 1 x 40	2	£0.14	£0.28	Amazon	Sunk cost	Link
Pin Header Strips Male 1 x 40	1	£0.14	£0.14	Amazon	Sunk cost	Link
Resistors 2k2 ohm 1/4 W	2	£0.11	£0.22	Amazon	Sunk cost	Link
Resistors 3k3 ohm 1/4 W	1	£0.05	£0.05	Amazon	Sunk cost	Link
Resistors 6k8 ohm 1/4 W	1	£0.04	£0.04	Amazon	Sunk cost	Link
Servo Motor MG90D Metal Gear Digital	8	£7.00	£56.00	PiHut	Can be re-used on other projects	Link
Servo Motor micro servo digital SG51R	1	£4.00	£6.99	PiHut	Can be re-used on other projects	Link
Subminiature Toggle Switch SPST 6A@125 AC ON/ON	1	£0.35	£0.35	Amazon	Can be re-used on other projects	Link
VL53L0X time of flight laser range finder	1	£3.25	£3.25	Amazon	Can be re-used on other projects	Link
WS2812B RGB LED	5	£0.15	£0.75	Amazon	Sunk cost	Link
1.75mm PLA Filament 1kg reel	0.2	£24.00	£4.80	3DPrintz	Sunk cost	Link
2-part epoxy glue, No Nonsense	0.5	£4.49	£2.25	ScrewFix	Sunk cost	Link
Battery Charger - 2 slot Lii-202 18650 - 5v 2A	1	£11.09	£12.26	Amazon	Can be re-used on other projects	Link
		Total:	£95.67			
		Optional:	£12.26		Can be re-used on other projects	
		Re-use:	£85.14		Can be re-used on other projects	
		Sunk:	£9.60		Sunk cost	

Notes:

These items are for the robot ONLY. You may want parts for the Wii 2.4GHz transceiver, and a Wii hand controller. 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 18650 batteries will require a charger - CAUTION high energy batteries.
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.