

Project:

QuadAuto(ESP32)

Robot only

Issued: 03/03/2023

| 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 | 58 | £0.03 | £1.50 | 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 | £6.99 | £12.26 | ebay | Can be re-used on other projects | Link |
| Button Switch 6x6x5mm 4 pin tactile | 1 | £0.03 | £0.03 | Amazon | Sunk cost | Link |
| ESP32 DevKitC ESP-WROOM-32S | 1 | £4.48 | £4.48 | AliExpress | 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 |
| Resistors 1/4 W | 2 | £0.03 | £0.05 | RS Components | Sunk cost | |
| Servo Motor MG90D Metal Gear Digital | 8 | £4.90 | £39.20 | PIHut | Can be re-used on other projects | Link |
| Servo Motor micro servo digital GH-S37D | 1 | £2.30 | £6.99 | 3bay | Can be re-used on other projects | Link |
| Toggle Switch SPDT 5A@250 AC | 2 | £0.79 | £1.57 | Amazon | Can be re-used on other projects | Link |
| VL53L0X time of flight laser range finder | 1 | £2.77 | £2.77 | ebay | 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 Gorilla glue | 0.5 | £4.75 | £2.38 | Wilko | Sunk cost | Link |
| | | | Total: | | | |
| | | | | | | |
| | | | Optional: | | | |
| | | | | | | |
| | | | Re-use: | | | |
| | | | | | | |
| | | | Sunk: | | | |
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Notes:

- These items are for the robot ONLY. You will need parts for the Wii 2.4GHz transceiver also.
- 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
- Rechareable 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.

