# Electronics Parts:

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| Part name | Quantity | Recommended vendor | Price |
| MG955 servo motor | 2 | Robotshop.com | £12.15 |
| Raspberry Pi Zero W 2 | 1 | Raspberrypi.com | £17.15 |
| GPIO header pins | 40 pins | Any electronics vendor | ~£0.5 |
| Momentary switches (3-way, toggle, to adjust servos) | 2 | [Link](https://www.switchelectronics.co.uk/on-off-on-momentary-miniature-toggle-switch-spdt) | £2 |
| Momentary switch (2-way, to capture image) | 1 | Any electronics vendor | £1 |
| Toggle switch (2-way) | 1 | Any electronics vendor | £1 |
| WS2812 (LEDs) | 10 | Any electronics vendor | ~£2 |
| 10000mah, 5V battery pack | 1 | Any electronics vendor, [example](https://www.amazon.co.uk/Anker-PowerCore-Ultra-Compact-Fast-Charging-Technology/dp/B019GJLER8/ref=sr_1_6?keywords=anker%2Bpower%2Bbank%2B10000mah&qid=1685973287&sprefix=anker%2Bpower%2Bbank%2Caps%2C128&sr=8-6&th=1) | ~£20 |
| Jumper wires, solder, and other miscellaneous items may be required during assembly – but have been emitted as exact quantities will depend on the final design & assembly procedure. | | | |

# Wiring Diagram:

A list of where each wire should be connected is included below. It is recommended that a jumper cable with a female header (see Fig 3) is used to connect the RasPi’s GPIO pins, as this allows for changes to be made easily. When the final assembly is complete, it is recommended to apply a small amount of hot glue (or other electrically insulating, easy-to-remove adhesive) to ensure that vibrations do not cause the jumper cables to fall out.