

## Project:

## Reach Robot NANO

Issued: 07/10/2022

Part	Qty	Unit Price (£'s)	Cost (£'s)	Supplier	Comments	Link
2mm x 10mm Steel Pozi Screws - silver	14	£0.03	£0.36	ebay	Can be re-used on other projects	<a href="#">Link</a>
Arduino NANO ATmega328 CH340	1	£2.13	£2.13	ebay	Can be re-used on other projects	<a href="#">Link</a>
Arduinio NANO expansion shield	1	£4.99	£4.99	Amazon	Can be re-used on other projects	<a href="#">Link</a>
Batteries 18650 Lithium 3.7v 3000mAh	2	£2.85	£5.70	AliExpress	Can be re-used on other projects	<a href="#">Link</a>
Battery Box - 2 x 18650 cells	1	£2.35	£2.35	ebay	Can be re-used on other projects	<a href="#">Link</a>
Button Switch 6x6x7mm 4 pin tactile	3	£0.08	£0.24	Amazon	Sunk cost	<a href="#">Link</a>
DC Power Plug 5.5mm Ø	1	£1.65	£1.65	ebay	Can be re-used on other projects	<a href="#">Link</a>
PS2 Joystick gam,e controller	2	£1.60	£3.20	Amazon	Can be re-used on other projects	<a href="#">Link</a>
M3 x 30mm Nylon C-Sunk screws	14	£0.40	£5.62	RS Components	Can be re-used on other projects	<a href="#">Link</a>
Pin Header Strips Male 1 x 40	6	£0.01	£0.03	ebay	Sunk cost	<a href="#">Link</a>
Ribbon Cable, female to female, 10cm, 17 ways	17	£0.04	£0.74	ebay	Sunk cost - cost per wire	<a href="#">Link</a>
Servo motor extension cable, 150mm, 3 way	1	£0.57	£0.57	Amazon	Can be re-used on other projects	<a href="#">Link</a>
Servo Motor Tower Pro MG90D, Metal Gear, Digital	4	£7.00	£28.00	Pi Hut	Can be re-used on other projects	<a href="#">Link</a>
WS2812B RGB LED	2	£0.13	£0.26	Amazon	Sunk cost	<a href="#">Link</a>
1.75mm PLA Filament 1kg reel (200g)	200	£0.02	£4.80	3DPrintz	Sunk cost - used 200 grammes	<a href="#">Link</a>
2-part epoxy (Wilko)	0.5	£3.90	£1.95	Wilko	Sunk cost	<a href="#">Link</a>
			<b>Total:</b>			
			Re-use:	£51.41	Can be re-used on other projects	
			Sunk:	£7.99	Sunk cost	

### Notes:

Prices are indicative, postage not included. Bulk purchases may be required to achieve figures. ie. LEDs, screws, etc

Web links are offered as a product search guides, they may not be the cheapest or available long term

Rechareable batteries will require a charger

[Link](#)

Consumeables like solder, flux, hook-up wire, heat shrink sleeving, etc are not included here, but are needed.

3-D printer is an estimate, but 1kg reel will easily do the job.