

## Project:

## SumoBot

Issued: 26/04/2021

Part	Qty	Unit Price (£'s)	Cost (£'s)	Supplier	Comments
0.96" OLED 128x64 Display I2C, IZOOKEE	1	£3.66	£3.66	Amazon	Can be re-used on other projects
1N4006 Rectifier Diode 800V	6	£0.14	£0.84	ebay	Sunk cost
2mm x 10mm Steel Pozi Screws	44	£0.03	£1.14	Amazon	Can be re-used on other projects
Batteries 18650 Lithium 3.7v 3000mAh	2	£3.25	£6.50	ebay	Can be re-used on other projects
Battery 18650 spring contacts, sourcing map	2	£0.31	£0.62	Amazon	Sunk cost - cost per cm
Button Switch 6x6x5mm	2	£0.02	£0.05	ebay	Sunk cost
DC Power Plug 5.5mm Ø	1	£0.29	£0.29	ebay	Can be re-used on other projects
DC Power Socket 5.5mm Ø	1	£0.15	£0.15	ebay	Sunk cost
ESP32 Dev Kit ESP-WROOM-32 CP2102, KeeYees	1	£4.30	£4.30	ebay	Can be re-used on other projects
Infrared TCRT5000 Line follow sensor	5	£2.50	£12.48	Amazon	Can be re-used on other projects
LX-16A Debug Board	1	£6.00	£6.00	Amazon	Can be re-used on other projects
M3 x 30mm Nylon C-Sunk screws	4	£0.07	£0.27	RS Components	Can be re-used on other projects
MPU-6050 3-axis accelerometer	1	£0.99	£0.99	ebay	Can be re-used on other projects
O-Ring Nitrile Rubber 60mm OD 52mm ID 4mm Width	6	£0.85	£5.10	Amazon	Can be re-used on other projects
Pin Header Strips Female 1 x 40	3	£0.28	£0.02	ebay	Sunk cost
Pin Header Strips Male 1 x 40	1	£0.99	£0.02	ebay	Sunk cost
Resistors 1/4 W	3	£0.03	£0.08	RS Components	Sunk cost
Servo Motor micro servo digital GH-S37D	1	£2.30	£2.30	Banggood	Can be re-used on other projects
Toggle Switch SPDT 5A@250 AC	1	£0.95	£0.95	RS Components	Can be re-used on other projects
VL53L0X time of flight laser range finder	1	£3.95	£3.95	ebay	Can be re-used on other projects
WS2812B RGB LED	5	£0.19	£0.95	Amazon	Sunk cost
Soft-melt Glue	1	£0.30	£0.30	Wilko	Sunk cost
1.75mm PLA Filament 1kg reel	0.3	£24.00	£7.20	3DPrintz	Sunk cost
Wood Glue	1	£1.00	£1.00	Wilko	Sunk cost
PVA Glue	1	£0.20	£0.20	Boys	Sunk cost
		Total:	£59.38		
		Re-use:	£47.99		Can be re-used on other projects
		Sunk:	£11.39		Sunk cost

## Notes:

Prices are indicative. Bulk purchases may be required to achieve figures. ie. LEDs, screws, etc  
 Rechargeable batteries will require a charger; not included  
 Use of wire wrap wire is not estimated  
 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.