

Project:

PixyBot2

Issued: 06/02/2022

Part	Qty	Unit Price (£'s)	Cost (£'s)	Supplier	Comments	Link
0.96" OLED 128x64 Display I2C, IZOKEE	1	£3.60	£3.60	ebay	Can be re-used on other projects	Link
2mm x 10mm Steel Pozi Screws - silver	1	£0.03	£0.03	ebay	Can be re-used on other projects	Link
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	
Battery Charger - 2 slot Lii-202 18650	1	£6.99	£6.99	ebay	Can be re-used on other projects	
Button Switch 6x6x5mm 4 pin tactile	1	£0.03	£0.03	Amazon	Sunk cost	Link
DC-DC Power Supply Module 3A stepdown converter	1	£0.95	£0.95	AliExpress	Can be re-used on other projects	Link
DC Power Socket 5.5mm Ø2.1	1	£0.38	£0.38	ebay	Sunk cost	Link
DRV8833 Motor Drive Module H-bridge	4	£1.25	£5.00	Amazon	Can be re-used on other projects	Link
ESP32 DevKitC ESP-WROOM-32S	1	£4.15	£4.15	AliExpress	Can be re-used on other projects	Link
IR Optocoupler Speed Sensor	4	£1.14	£4.55	Amazon	Can be re-used on other projects	Link
M3 x 30mm Nylon C-Sunk screws	10	£0.07	£0.68	RS Components	Can be re-used on other projects	
Mecanum Wheel Robot Kit 4WD Smart Robot Car	1	£28.99	£28.99	Amazon	Can be re-used on other projects	Link
MPU-6050 3-axis accelerometer GY-521	1	£1.88	£1.88	ebay	Can be re-used on other projects	
Pin Header Strips Female 1 x 40	1	£0.28	£0.01	ebay	Sunk cost	
Pin Header Strips Male 1 x 40	1	£0.30	£0.01	ebay	Sunk cost	
Pixy2 CMUcam5 colour recognition camera	1	£60.78	£60.78	AliExpress	Can be re-used on other projects	Link
Resistors 1/4 W	2	£0.03	£0.05	RS Components	Sunk cost	
Servo Motor MG90D Metal Gear Digital	2	£4.90	£9.80	HobbyKing	Can be re-used on other projects	
Toggle Switch SPDT 5A@250 AC	1	£0.79	£0.79	Amazon	Can be re-used on other projects	Link
Universal 30W AC/DC power supply	1	£11.99	£11.99	Amazon	Can be re-used on other projects	Link
VL53L1X time of flight laser range finder	1	£4.22	£4.22	AliExpress	Can be re-used on other projects	Link
WS2812B RGB LED	13	£0.15	£1.95	Amazon	Sunk cost	Link
Soft-melt Glue	1	£0.30	£0.30	Wilko	Sunk cost	
1.75mm PLA Filament 1kg reel	0.33	£24.00	£7.92	3DPrintz	Sunk cost	
UHU All purpose adhesive	1	£2.99	£2.99	Amazon	Sunk cost	
2-part epoxy Gorilla glue	0.5	£3.90	£1.95	Wilko	Sunk cost	
		Total:	£167.10			
		Optional:	£18.98		Can be re-used on other projects	
		Re-use:	£143.91		Can be re-used on other projects	
		Sunk:	£16.19		Sunk cost	

Notes:

Prices are indicative. Bulk purchases may be required to achieve figures. ie. LEDs, screws, etc
 Rechargeable batteries will require a charger; cost shown as optional
 Wire wrap wire is needed, but not included
 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.