

Project:

Magical Sword II

Issued: 18/05/2025

Part	Qty	Unit Price (£'s)	Cost (£'s)	Supplier	Comments	Link
1N4006 Rectifier Diode 800V	1	£0.04	£0.04	Amazon	Sunk cost - cost per cm	Link
2mm x 10mm Steel Pozi Screws - silver	8	£0.03	£0.21	ebay	Can be re-used on other projects	Link
Button Switch 6x6x5mm 4 pin tactile	3	£0.03	£0.09	Amazon	Sunk cost	Link
DC-DC MP1584 Step Down Power Supply Module 3A Adjustable	1	£0.73	£0.73	AliExpress	Sunk cost	Link
DC Power Socket 5.5mm Ø2.1	1	£0.38	£0.38	ebay	Sunk cost	Link
ESP32 DevKitC ESP-WROOM-32S	1	£4.15	£4.15	AliExpress	Can be re-used on other projects	Link
MPU-6050 3-axis accelerometer GY-521	1	£1.88	£1.88	AliExpress	Can be re-used on other projects	Link
Pin Header Strips Female 1 x 40	2	£0.28	£0.01	ebay	Sunk cost	Link
Pin Header Strips Male 1 x 40	1	£0.30	£0.01	ebay	Sunk cost	Link
Resistors 1/4 W	2	£0.03	£0.05	RS Components	Sunk cost	
WS2812B RGB LED	17	£0.15	£2.55	Amazon	Sunk cost	Link
1.75mm PLA Filament 1kg reel	0.125	£24.00	£3.00	3DPrintz	Sunk cost	
2-part epoxy glue 30ml tubes	0.5	£3.90	£1.95	ScrewFix	Sunk cost	Link
			Total:			
			Re-use:		£6.26	Can be re-used on other projects
			Sunk:		£8.79	Sunk cost

Notes:

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