	The components	Distributor	Catalog number	Quantity required for one SPIRO sy
	Borgs nest			
1	Raspberry pi 3B+	Amazon	358-RPI3-MODBP-BULK	1
2	Power supply 5V 2.5A, micro USB	Mouser	358-1101001000045	1
3	Adafruit tb6612 h-bridge dc-stepper motor driver breakout board	Mouser	485-2448	1
4	Unipolar stepper motor Nema17, 12V, 0.35A	Mouser	485-324	1
5	Power adapter 12V 3A wih with 2.1 power plug	Amazon		1
6	Female DC connector 5.5 x2.1mm	Amazon		1
7	SparkFun MOSFET Power Control Kit	Mouser	474-COM-12959	1
8	Green LED strip 12V (sic! it should be possible to cut the strip in 5cm segments!)	Mouser	828-OVQ12S30G7	1 meter
9	90 degree connectors for 8 mm LED strip + terminal LED strip connector	Amazon		4 corners 1 terminal connector
10	2-Pin 3.5 mm Pitch PCB Mount Screw Terminal Connector	Mouser	710-691214110002S	1
11	Jumper cables 10 cm Female to female (Dupont wires)	<u>Amazon</u>		20
12	SD Memory Card Class 10 (32Gb or more)	Amazon		1
13	Heat shrink tubes, diameter 1 mm and 2 mm	Amazon		5 cm of each
14	Wire end ferrules, 0,5 mm2, not insulated	<u>Amazon</u>		20
15	Colored AWG 28 wires	Amazon		ca 3 m
	Structural parts			
16	Aluminium profile T2020, black	<u>Amazon</u>		1x 30cm for the vertical rail 1x ca 34 cm for the horizontal rail 2x ca 8cm for each leg 2x 14 cm for the LED frame mountir
17	2020 Aluminium Profile Slot Cover black	Banggod		1 m
18	635zz - R-1950zz - 5972K263 Miniature Ball Bearings Bearing	Amazon		3
19	Rigid shaft coupling M5 to M5	Amazon		1
13	1000 State Coupling MS to MS	AHIdZUII		'
	Camera			
20.	Camera Developer Di Company C C MD		405 2000	4
20a	Raspberry Pi Camera v2 8 MP	Mouser	485-3099	1
20b	Arducam with motorized focus	Uctronics	B0122	1
21	Flex cable	Amazon		25-30 cm
22	Coiled Cable Protection	<u>Amazon</u>		ca 1 m
	Microswitch			
23	Mini microswitch	Reichelt elektronik	MAR 1050.5202	1
	Screws			
24	M2 x 25mm, button head			4
25	M2 hex nuts			4
26	M2.5 x 12mm, button head			2
27	M2.5 x 12mm, flat head countersunk, black			2
28	M2.5 x 8mm, flat head countersunk			8
29	M2.5 hex nuts			12
20	THE TRAINED			12
30	M3 x 12 mm, button head, hex socket, black			8
31	M3 x 20mm, flat head countersunk			4
32	M3 hex nuts			8
-	WIS TIEX TIULS			8
33	M5 x 8 mm, flat head countersunk, black			1
34	M5 x 8 mm screw, button head, hex socket, black			27
35	M5 x 11-12 mm , button head, hex socket, black. Lifehack: use M5x16 and print a 5mm tall washer			6
	M5 x 12 mm, countersunk			4
36 37	M5 x 12 mm, countersunk M5 x 16 mm screw, button head, hex socket, black			3
38	M5 x 16 min screw, button nead, nex socket, black M5 bolt x 20mm, hexagonal head			1
38 39	M5 x16mm bolt, hex head			4
39 40	M5 T-nuts for T2020 aluminium profile			32
40 41	M5 hex nuts			32
41 42	M5 washer, OD 10mm, flat			6
	M5 slide-in bracket for T2020 aluminium profile			3
42	INIO SINOS-III DI ACNOL 101 12020 AIUHIIIIUHI PIONE			3
	Plastic for the 3D printer			
44	PLA filament matt black	3Dprinthings	Matteforge Pro Filament PLA 1.75 mm - NEW, black	ca 1.7 kg
44 45	PLA filament matt black PLA filament milky white	Amazon	Sunlu, PLA+, 1.75 mm, milky white/semi-transparent	ca 1.7 kg
70	1 Extraction thinky write	ΔΠαΖΟΠ	Carna, 1 271, 1.70 mm, mmky white/semi-transparent	Ca 100 g
	Tools			
16		Amazaz		
46 47	Wire stripper suitable for AWG 28 wires	Amazon		
47	Ferrule crimper suitable for 0.5 mm2 ferrules	<u>Amazon</u>		
48	Soldering iron & solder	Amazon		
49	Screw drivers for M2, M2.5 and M3 (cross and flat head)			
50	Allen keys for M5 & M3			
51	A saw to cut aluminium profiles			
52	Super glue			200 ul
	Forceps			
53	, -, -, -, -, -, -, -, -, -, -, -, -, -,			
53	, starp			