

List of Materials

Botnroll:

Component	Quantity	Price (€)	Source
Luminosity Sensor Breakout – TSL561	1	6.50	http://www.botnroll.com/en/sensors/942-luminosity-sensor-breakout-tsl2561.html?search_query=TSL2561&results=2
Resistors	4	0.20	http://www.botnroll.com/en/resistors/929-resistor-1m-w.html?search_query=resistor&results=85
Solenoid 12 V	1	9.40	http://www.botnroll.com/en/biometrics/572-12v-solenoid-valve-3-4.html?search_query=solenoid&results=13
Capacitors	4	0.60	http://www.botnroll.com/en/capacitors/1326-condensador-electrolitico-220uf-10v.html?search_query=capacitor&results=45
Arduino Power supply AC/DC 230 VAC/12V 2A	1	7.50	http://www.botnroll.com/en/power-supply-ac-dc-12v/477-alimentador-ac-dc-12v-2a.html?search_query=12V+POWER+SUPPLY&results=57
Wiring	1	0.25	http://www.botnroll.com/en/cables/199-fio-laranja-02mm.html
ULN2003	1	3.40	http://www.botnroll.com/en/dc-motors-actuators/2137-uln2003-stepper-motor-driver-board.html?search_query=ULN2003&results=7
Shipping costs	-	3.70	-
Total	-	31.55	-

Electrofun:

Component	Quantity	Price (€)	Source
16 x 2 I2C LCD Display	1	8.50	https://www.electrofun.pt/display-lcd-16x2-com-i2c-verde
DHT22 Temperature & Humidity Sensor	1	9.80	https://www.electrofun.pt/sensores-arduino/sensores-termicos-e-humidade/sensor-humidade-temperatura-dht22
NPN Transistor	2	0.98	https://www.electrofun.pt/transistor-tip120-npn
Shipping costs	-	3.20	-
Total	-	22.48	-

Farnell:

Component	Quantity	Price (€)	Source
Led Strip	3	8.88	http://pt.farnell.com/optek-technology/ovm12f3w7/led-3-strip-white/dp/1840458?ost=OVM12F3W7&searchView=table&isrfrnonsku=false&ddkey=http%3Apt-PT%2FElement14_Portugal%2Fsearch
Shipping costs	-	-	-
Total	-	8.88	-

Papelaria Nova Técnica:

Component	Quantity	Price (€)
UHU Allplast	1	4.00
Total	-	4.00

Mundo Escolar:

Component	Quantity	Price (€)	Source
Vinil Autocolante Brilhante Branco	2	2.86	http://www.mundoescolar.pt/catalogo.aspx?id=1904&idcat=216&pag=1&pesquisa=
Vinil Autocolante Brilhante Preto	2	2.86	http://www.mundoescolar.pt/catalogo.aspx?id=1904&idcat=216&pag=1&pesquisa=
Shipping costs	-	1.32	-
Total	-	7.04	-

Leroy Merlin:

Component	Quantity	Price (€)	Source
PVC	2 sheets of 100 cm x 50 cm	21.58	http://www.leroymerlin.pt/Site/Produtos/Madeiras/Vidro/Vidro/11517310.aspx
Shipping costs	-	-	-
Total	-	21.58	-

ISEP:

Component	Quantity	Price (€)
PMMA	0,137 m ²	Provided by ISEP
Nylon mesh	1	Provided by ISEP
Clear plastic tubing	1.5 meters	Provided by ISEP
Arduino Uno	1	Provided by ISEP
12 V PC fan	1	Provided by ISEP
Total	-	0.00

We were told to go to Aquario directly for the heater and pump which we will do this week.

Total costs of all materials	95.53 €
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