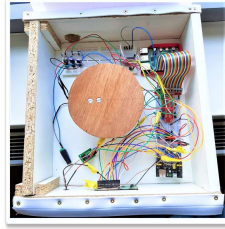


Class 1MCT3  
 First Name: Ian  
 Name Van Cauwenberg  
 Project Name : redrate  
 Assembly Revision : 11-Jun  
 Approval Date :  
 Part Count : 15  
 Total Cost : €172



Part #	Part Name	Description	Revision	Qty	Supplier	also available from	Units	Unit Cost	Max Cost	Real Cost
1	Raspberry Pi 4 Model B 2GB	Raspberry pi for communication between different components	1	1	<a href="#">Cheapest in stock (megekko)</a>	<a href="#">Cheapest, but not in stock atm (sossolutions)</a>	1	\$ 39.95	€ 53.00	€ 75 for full raspberry pi kit
2	Verbatim MICRO SDHC 16GB CL 10 ADAP	Storage raspberry pi	1	1	<a href="#">Cheapest (conrad)</a>	<a href="#">Alternative (megamobile)</a>	1	\$ 4.28	€ 7.60	€ 8,89 because my SD card got corrupted
3	Rpi PS 15W BK EU	PSU raspberry pi (unsure of how I'm going to power it yet)	1	1	<a href="#">Option 1 (reichelt)</a>	<a href="#">Option 2 (sossolutions)</a>	1	\$ 8.59	€ 10.95	included in kit
4	Rpi T-cobbler P	Extension board that connects to GPIO pins and makes them easy to read.	1	1	<a href="#">Option 1 (reichelt)</a>	<a href="#">Option 2 (gotron)</a>	1	\$ 3.91	€ 6.95	included in arduino kit (total of € 155, but I barely used anything from it)
5	2KG Weeg Sensor	Weight sensor	1	1	<a href="#">Option 1 (opencircuit)</a>	<a href="#">3kg alternative (opencircuit)</a>	1	\$ 5.20	€ 5.40	€20,7 for weight sensor, load cell and more breadboard jumpers
6	HX711 Weeg Sensor Module Dual Channel	Converts the analog signal from the sensor to a digital one	1	1	<a href="#">Option1 (opencircuit)</a>	<a href="#">Option 2 (fruugo)</a>	1	\$ 2.75	€ 3.95	-
7	DS18B20	Digital temperature sensor for onewire	1	1	<a href="#">Option 1 (reichelt)</a>	<a href="#">Option 2 (banggood)</a>	1	\$ 2.71	€ 2.95	included in arduino kit
8	HIH 4000 001	Relative humidity sensor	1	1	<a href="#">Option 1 (digiquey)</a>	<a href="#">Option 2 (conrad)</a>	1	\$ 14.17	€ 17.99	€ 22,90
9	LED strip 5mtr 5050	12V RGB leds based on the 5050 chip	1	1	<a href="#">Option 1 (ledloket)</a>	<a href="#">60/m alternative (neonica)</a>	1	\$ 11.95	€ 11.97	€ 29,95 (5m) with voeding
10	IRLZ34N		1	1	<a href="#">Option 1 (reichelt)</a>	<a href="#">Option 2 (digiqueys)</a>	3	\$ 2.01	€ 2.97	€12,78 with mini-speaker
11	PSU leds 24W	Can deliver up to 2A of power, which should be sufficient for a meter and less (longer for the first option of leds)	1	1	<a href="#">Option 1 (ledstripkoning)</a>	<a href="#">3A alternative (ledstripxl)</a>	1	\$ 9.95	€ 12.95	-
12	DC Power Female Jack	A piece that connects the I	1	2	<a href="#">Option 1 (bol.com)</a>	<a href="#">Option 2 (bol.com)</a>	1	\$ 5.97	€ 16.74	€ 6,49
13	VIS K16-50	Mini-speaker	1	1	<a href="#">Option 1 (reichelt)</a>	<a href="#">Option 2 (conrad)</a>	1	3.81	5.08	not part of mvp
14	Adafruit Mono 2.5W Class D Aud	Amplifier for miniature spe	1	1	<a href="#">Option 1 (thepihut)</a>	<a href="#">Option 2 (sossolutions)</a>	1	4	13.95	not part of mvp (€7.92 or € 9.24)
	Other	3d-printing case, jumper cables, bread board, resistors, display (unsure)					?	?	?	€ +- 40 - 50
	<b>Total</b>			15					172.45 91.00	€ 219.06