

Class	1MCT4
First Name:	Thibaut
Name	De Tandt
Project Name :	<u>Slim kattenluik</u>
Assembly Revision :	<u>3</u>
Approval Date :	<u></u>
Part Count :	<u>13</u>
Total Cost :	<u>€130</u>

Part #	Part Name	Description	Revision	Qty
1	Raspberry Pi 4 kit incl. t-cobbler en ethernet kabel	Raspberry Pi to control the entire system		1
1	DHT11	temperatuur en luchtvochtigheids sensor		1
1	LDR	licht sensor		1
1	RFID rc522 sensor	rfid scanner		1
1	arduino uno	Arduino bord		1
1	stappen motor	om kattenluik te openen		1
	male to female draden	0,2mm draden		1
	male to male draden	0,2mm draden		1
	16x2 LCD scherm	scherm		1

2 buttons

knoppen

2

Level shifter

om data tussen arduino  
en raspi te versturen

1

12v power supply

om motor aan te sturen

1

**Total**

**13**

Supplier	also available from	Units	Unit Cost	Max Cost
<a href="https://www.gotron.be/projecten/leerpakketten/mct-prototyping-kit-2019-2020-deel-1-versie-rpi4b-2gb.html">https://www.gotron.be/projecten/leerpakketten/mct-prototyping-kit-2019-2020-deel-1-versie-rpi4b-2gb.html</a>	al in kit	1	€ 61,98	€ 61,98
<a href="https://www.amazon.com/DHT-11-Digital-Temperature-Humidity-Arduino/dp/B0184Y3L4A/ref=sr_1_4?dchild=1&amp;keywords=DHT11&amp;id=1633733503">https://www.amazon.com/DHT-11-Digital-Temperature-Humidity-Arduino/dp/B0184Y3L4A/ref=sr_1_4?dchild=1&amp;keywords=DHT11&amp;id=1633733503</a>	al in kit	1	€ 3,95	€ 3,95
<a href="https://www.amazon.com/MCIGICM-Photoresistor-Sensitive-Resistor-Dependent/dp/B07PF3CWW9/ref=sr_1_5?dchild=1&amp;keywords=LDR&amp;id=1633733503">https://www.amazon.com/MCIGICM-Photoresistor-Sensitive-Resistor-Dependent/dp/B07PF3CWW9/ref=sr_1_5?dchild=1&amp;keywords=LDR&amp;id=1633733503</a>	al in kit	1	€ 3,99	€ 3,99
<a href="https://www.amazon.com/Arduino-Raspberry/dp/B07KGBJ9VG/ref=sr_1_3?dchild=1&amp;keywords=Arduino+Raspberry&amp;id=1633733503">https://www.amazon.com/Arduino-Raspberry/dp/B07KGBJ9VG/ref=sr_1_3?dchild=1&amp;keywords=Arduino+Raspberry&amp;id=1633733503</a>	al in kit	1	€ 2,45	€ 2,45
<a href="https://www.amazon.com/JNO-R3/dp/B008GRTSV6/ref=sr_1_3?dchild=1&amp;keywords=JNO-R3&amp;id=1633733503">https://www.amazon.com/JNO-R3/dp/B008GRTSV6/ref=sr_1_3?dchild=1&amp;keywords=JNO-R3&amp;id=1633733503</a>	al in kit	1	€ 14,90	€ 14,90
<a href="https://www.hobbyelectronica.nl/product/5-v-stappenmotor-met-uln2003/">https://www.hobbyelectronica.nl/product/5-v-stappenmotor-met-uln2003/</a>	al in kit	1	€ 3,95	€ 3,95
Dtron kortrijk	<a href="https://www.amazon.com/Arduino/dp/B01EV70C78/ref=sr_1_1?dchild=1&amp;keywords=Arduino+Raspberry&amp;id=1633733503">https://www.amazon.com/Arduino/dp/B01EV70C78/ref=sr_1_1?dchild=1&amp;keywords=Arduino+Raspberry&amp;id=1633733503</a>	1	€ 2,45	€ 2,45
Dtron kortrijk	<a href="https://www.hobbyelectronica.nl/product/dupont-male-male-brug/">https://www.hobbyelectronica.nl/product/dupont-male-male-brug/</a>	1	€ 2,45	€ 2,45
<a href="https://www.martoparts.nl/16x2-LCD-Display-1602/">https://www.martoparts.nl/16x2-LCD-Display-1602/</a>	al in kit	1	€ 3,45	€ 3,45

<a href="#">d-Miniature/dp/B08DR3TBDH/ref=sr_1_4?c</a>	Dtron Kortrijk	2	€ 1,00	€ 2,00
<a href="#">ectional-Shifter/dp/B07LG646VS/ref=sr_1_</a>	al in kit	1	€ 6,99	€ 6,99
<a href="#">ons-Connectors/dp/B077PW5JC3/ref=sr_1_</a>	Dtron Kortrijk	1		€ 21,70
			€ 21,70	
				<b>€ 130,26</b>

**Real Cost**

€ 61,98

€ 3,95

€ 3,99

€ 2,45

€ 14,90

€ 3,95

€ 2,45

€ 2,45

€ 3,45

€ 1,00

€ 6,99

€ 21,70