

Class 3MCT 1  
 First Name: Maxime  
 Name Ryheul  
 Project Name : Smart bookcase  
 Assembly Revis 1  
 Approval Date : 08-Mar-21  
 Part Count : 19  
 Total Cost : €96

Part #	Part Name	Description	Revision	Qty	Supplier	available i	Units	Unit Cost	Max Cost	Real Cost
1	Raspberry Pi 4 Model B / 2GB	raspberry pi to run code		1	<a href="https://www.sossolutions.nl/raspberry-">https://www.sossolutions.nl/raspberry-</a>	<a href="https://www.amazon.nl/Raspberry-">https://www.amazon.nl/Raspberry-</a>	1	\$ 39,95	€ 39,95	€ 39,95
	Intenso Micro SDHC 8GB Class 10 geheugenkaart incl. SD-adapter zwart	Memorycard for the raspberry pi		1	<a href="https://www.amazon.nl/dp/B008RDC">https://www.amazon.nl/dp/B008RDC</a>	<a href="https://www.bol.com/nl/p/micro-sd-">https://www.bol.com/nl/p/micro-sd-</a>	1	\$ 4,76	€ 4,76	€ 4,76
	Originele Raspberry Pi USB-C 3A voeding Zwart	power suply for the raspberry pi		1	<a href="https://www.sossolutions.nl/originele-">https://www.sossolutions.nl/originele-</a>	<a href="https://be.ni.rs-online.com/web/p/">https://be.ni.rs-online.com/web/p/</a>	1	\$ 10,95	€ 10,95	€ 10,95
2	Infrarood bewegingsmelder HC-SR501	Infrared sensor to check if there is anny movement		1	<a href="https://www.antra-tek.be/pir-motion-">https://www.antra-tek.be/pir-motion-</a>	<a href="https://www.bol.com/nl/p/hc-sr501-pas-">https://www.bol.com/nl/p/hc-sr501-pas-</a>	1	\$ 2,39	€ 2,39	€ 2,39
3	Arduino Uno	for neopixel led strip and rfid card reader		1	<a href="https://www.bol.com/nl/p/u">https://www.bol.com/nl/p/u</a>	<a href="https://www.123-3d.nl/123-no-r3-3d-">https://www.123-3d.nl/123-no-r3-3d-</a>	1	\$ 11,99	€ 11,99	€ 11,99
4	1602 LCD blauw backlight	display to show IP adress		1	<a href="https://www.otronic.nl/a-62700212">https://www.otronic.nl/a-62700212</a>	<a href="https://www.hobbyelectronic.a.nl/prod">https://www.hobbyelectronic.a.nl/prod</a>	1	\$ 3,19	€ 3,19	€ 3,19
5	LED strip WS2812B RGB	To show how long you have left before you need to hand your book in		1	<a href="https://www.hobbyelectronic.a.nl/prod">https://www.hobbyelectronic.a.nl/prod</a>	<a href="https://www.ledstripkoning.be/speciale-">https://www.ledstripkoning.be/speciale-</a>	1	\$ 11,95	€ 11,95	€ 47,66
6	GL5516 LDR Lichtgevoelige weerstand (Photoresistor)	To detect anny changes in the light	1	5	<a href="https://www.otronic.nl/a-60957567">https://www.otronic.nl/a-60957567</a>	<a href="https://www.hobbyelectronic.a.nl/prod">https://www.hobbyelectronic.a.nl/prod</a>	1	\$ 0,09	€ 0,45	€ 1,70
7	RFID-RC522 NFC Kit MFRC522 S50	RFID sensor to red rfid card		1	<a href="https://www.otronic.nl/a-60634400">https://www.otronic.nl/a-60634400</a>	<a href="https://www.bol.com/nl/p/rfid-kit-">https://www.bol.com/nl/p/rfid-kit-</a>	1	\$ 3,99	€ 3,99	€ 3,99
	RFID Kaart   13,56Mhz   1K S50   Mifare Classic   Wit	extra RFID cards		5	<a href="https://www.otronic.nl/a-61883406">https://www.otronic.nl/a-61883406</a>	<a href="https://www.distrel.ec.be/nl/n-tag203-13-">https://www.distrel.ec.be/nl/n-tag203-13-</a>	1	\$ 0,39	€ 1,95	€ 3,20
8	BOB-12009 - Bi-Directional Logic Voltage Level Converter, SparkFun Electronics	For comunication between arduino and raspberry pi		1	<a href="https://www.distrel.ec.be/en/bi-">https://www.distrel.ec.be/en/bi-</a>	<a href="https://www.gotro.be/logic-level-">https://www.gotro.be/logic-level-</a>	1	\$ 3,75	€ 3,75	€ 3,75
9	potensiometer	for the light intencity of the LCD display		1	<a href="https://www.gotro.be/low-cost-">https://www.gotro.be/low-cost-</a>	<a href="https://www.hobbyelectronic.a.nl/prod">https://www.hobbyelectronic.a.nl/prod</a>	1	\$ 0,75	€ 0,75	€ 1,00

10	10kΩ Resistor	resistor for Idr	5	<a href="https://be.nl.rs-online.com/web/p/">https://be.nl.rs-online.com/web/p/</a>	<a href="https://www.reichelt.com/be/nl/metaa">https://www.reichelt.com/be/nl/metaa</a>	1	\$ 0,13	€ 0,64	€ 1,28
<b>Total</b>			<b>19</b>					<b>€ 96,07</b>	<b>€ 134,53</b>