

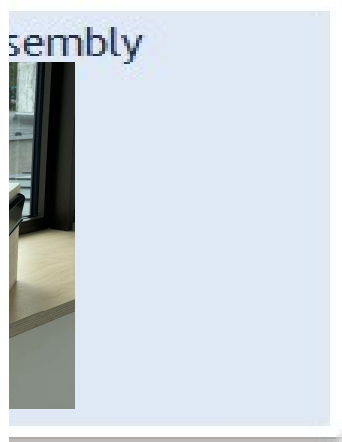
Class	1MCT4
First Name:	Mbark
Name	Ouagoulla
Project Name :	Smart Letterbox
Assembly Revision :	3
Approval Date :	18-Jun-22
Part Count :	16
Total Cost :	€160



Part #	Part Name	Description	Revision	Qty	Supplier
1	Raspberry Pi 4	Controls the entire system	1	1	/www.sossolutions.nl/raspberry-pi-4-model-
2	Micro SD card	This is the memory card in which everything is saved	1	1	DSJ5&keywords=micro%2Bsd%2B8gb&qic
3	LCD Display	Shows the delivery time or other information	1	1	7eYfm&aff_platform=link-c-tool&sk=NFLy7e
4	Magnetic door sensor	Detects if the letterbox flap had been opened	1	1	https://www.ebay.com/itm/131280663257

5	SparkFun Load Cell Amplifier	Readout of the Load Cell itself	1	1	www.gotron.be/sparkfun-load-cell-amplifier-h
6	SparkFun Load Cell	Detects each time a letter is deposited in the box	1	1	be/nl/products/detail/sparkfun-electronics/S
7	Raspberry Pi T-cobbler	Add-on prototyping board for the Pi	1	1	uit.nl/product/Adafruit-Pi-T-Cobbler-Plus-Kit
8	Servo-motor	Closing and opening the back door	1	1	servo-motor-kit-mg995-55g-3600-geschikt-v
9	RC522 RFID Reader	For opening the box with a badge	1	1	114634680/?Referrer=ADVNLGOO002013
10	Breakaway Pin Headers	For connecting the components with each other	1	1	larks-Breadboard-Connectors-Assortment-
11	Push button	For powering-off the PI	1	1	luct/B0816FQX8W/ref=ppx_yo_dt_b_asin
12	Powerbank 10.000mAh	Power-supply	1	1	luct/B08D34S8H1/ref=ppx_yo_dt_b_asin_t
13	Resistors	Necessary for some components	1	1	=sr_1_5?keywords=resistor+kit&qid=16554

14	Breadboard	Breakout from the Pi to the components	1	1	f=sr 1 3?keywords=broodplank&qid=1655
15	Servo-motor holder	For mounting the servomotor on the case	1	1	3d print
16	Servo-motor lock-system	For locking the servo when it closes	1	1	3d print
Total			16		



(picture can only be added with END delivery of project!)

also available from	Units	Unit Cost	Max Cost	Real Cost
e/nl/product/836200/raspberry-	1	€ 59,95	€ 59,95	€ 59,95
s-read-card-sd-adapter/920000	1	€ 5,07	€ 5,07	€ 5,07
cklight-5v/?gclid=EAlaIQobChl	1	€ 2,15	€ 2,15	€ 2,15
l=7ddcfa1e-0a77-4a03-b3e5-e	1	€ 3,99	€ 3,99	€ 1,32

tronics.nl/nl/sparkfun-load-cell-	1	€ 14,90	€ 14,90	€ 14,90
/www.sparkfun.com/products/	1	€ 4,33	€ 4,33	€ 3,83
module/?gclid=EAlaIqobChli	1	€ 3,95	€ 3,95	€ 3,95
-micro-servo-motor-arduino-ras	1	€ 5,50	€ 5,50	€ 5,50
lz-p100397?gclid=EAlaIqobCh	1	€ 6,99	€ 6,99	€ 6,99
e.com/web/p/breadboard-jump	1	€ 12,00	€ 12,00	€ 8,75
0058eb3a694-0&pdp_ext f=%7	1	€ 10,00	€ 10,00	€ 6,99
2caf57fc-1&pdp_ext f=%7B%2	1	€ 18,00	€ 18,00	€ 18,00
4883b220cf-0&pdp_ext f=%7B	1	€ 7,00	€ 7,00	€ 5,99

eb58dee-3&pdp_ext_f=%7B%2	1	€	6,00	€	6,00	€	6,00
3d print	1	€	0,30	€	0,30	€	0,30
3d print	1	€	0,20	€	0,20	€	0,30
				€ 160,33		€ 149,99	