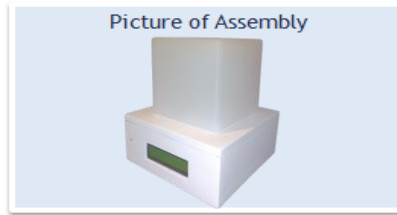


Class 1MCT3
 First Name: Cédric
 Name Callant
 Project Name : Communication cubes
 Assembly Revision : _____
 Approval Date : _____
 Part Count : 28
 Total Cost : €291



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

Part #	Part Name	Description	Revision	Qty	Supplier	also available from	Units	Unit Cost	Max Cost	Real Cost
1	MPU6050	Accelerosensor to turn lamp on or off		2	t.be/product/6-dof-gyroscoop-accelerometr=sr_1_1?cid=2RN7HAQDRO!		2	\$ 4,20	€ 8,40	
2	Touchsensor (TTP223)	Touchsensor to choose ledcolor		6	JYK/ref=sr_1_1?cid=3OB5PXQ9EPSS1&Ich-Switch-Button-Self-Lock-Mt		6	\$ 1,03	€ 6,18	
3	Microfoon (KY-038/KY-037)	Microphone to turn leds on or off		2	cid=3IOV4GOV0RDRE&keywords=modulproduct/ky-037-module-detecti		2	\$ 1,99	€ 3,98	
4	Ledstrip	Ledstrip that needs 5V for inside the cube		1	31WS4AX5QD023&keywords=ruban+led+rgb+5v+arduino&qid=167829!		1	\$ 28,17	€ 28,17	
5	LCD I2C Display	LCD display for the cubes		2	://www.tinytronics.nl/shop/en/displays/lcd/lcd-display-16*2-characters-wit/		2	\$ 4,33	€ 8,66	
6	ESP32	ESP32 to add into the second cube (instead of rpi)		2	s=&hvnetw=g&hvrand=106362325247670!a/product/nodemcu-esp-32s-lu		2	\$ 7,00	€ 14,00	
7	Raspberry pi 4 model B (8gb)	Pi that runs webserver and database and mangages serial communication		1	ronics.com/en/raspberry-pi-4-model-b-2gb-aspberry-pi-4-model-b-2gb.htm		1	\$ 59,95	€ 59,95	
8	DC motor	DC motor that makes vibrations when a messags is received		2	encircuit.be/product/21x25mm-dc-motor-17000rpm		2	\$ 2,60	€ 5,20	
9	RFID sensor (RC522)	RFID sensor to read a message		2	it.be/product/rc522-rfid-reader-writer-modi/RFID-RC522-Controller-Scanr		2	\$ 4,65	€ 9,30	
10	small breadboards	Breadboards for the grounds and 3v3 / 5v		2	dp/B07VFK5CRP?ref_=pe_43847721_714291821_302_E_DDE_dt_1		2	\$ 4,49	€ 8,98	
11	5V 4A adapter	adapter for ledstrips		2	be/dp/B07NSSD9RJ/ref=pe_43847721_694249361_TE_SCE_dp_1		2	\$ 16,93	€ 33,86	
12	Breadboard powersupplies	Powersupplies for the breadboard		2	ronica.nl/product/breadboard-voedingsmodule-mb102-3-3-5v-usb/		2	\$ 1,95	€ 3,90	
13	9V 1A adapter	Adapter for breadboard powersupplie		2	be/dp/B08ZS3L9CR?ref_=pe_43847721_708903971_E_301_dt_1		2	\$ 10,95	€ 21,90	
14	Female dc power adapters	piece for ledstrip adapter		2			2	\$ 2,49	€ 4,98	
15	usb to microusb b cable	cable for serial communication		1	https://www.allekabels.be/ac-dc-adapter/7207/1196559/voedingsstekker-nl/nl/p/otb-data-cable-micro-usb-0-95m/9200000078395748/		1	\$ 6,99	€ 6,99	
16	MDF wood	Wood for lower cube		1	DIY store		1	\$ 12,95	€ 12,95	
17	Led cubes	Upper cubes		2	be/dp/B01NATVUC1?ref_=pe_43847721_708903971_E_301_dt_1		2	\$ 26,80	€ 53,60	
Total				28					€ 291,00	