

CLASS: 1NMCT5
 NAME: Tolpe
 FIRSTNAME: Kevin
 Assembly Name : Arduino
 Assembly Revision : 2
 Approval Date :
 Part Count : 33
 Total Cost : €133



Part #	Part Name	Description	Revision	Qty	Supplier	also available from	Units	Unit Cost	Max Cost	Real Cost
1	Raspberry Pi	A mini computer to host webservice and communicate with arduino	1	1	International Electronics	Aliexpress		€ 33.21	€ 33.21	€ 33.21
2	Arduino	A microcontroller	1	1	International Electronics	Arduino Store		€ 20.00	€ 20.00	€ 20.00
3	HC-05 (Bluetooth module arduino)	Enables bluetooth on the arduino	1	1	Aliexpress	Amazon		€ 2.21	€ 2.21	€ 2.21
4	LCD display	Displays a row of characters	1	1	International Electronics	Aliexpress		€ 1.16	€ 1.16	€ 1.16
5	Battery holder	Holds the 18650 Battery cells and makes it easy to connect	1	1	Aliexpress	Amazon.de		€ 0.80	€ 0.80	€ 0.80
6	18650 Battery Cell	Battery that holds an electric charge	1	4	Boj	Aliexpress		€ 7.48	€ 29.92	€ 29.92
7	RGB led	Led that shows red, green and blue light and all possible combinations	1	1	Aliexpress	adafruit		€ 0.29	€ 3.95	€ 2.89
10	DHT-11 (Temperature and humidity sensor)	This sensor measures the temperature and the relative humidity	1	1	Aliexpress	Amazon.de		€ 0.79	€ 0.79	€ 0.79
12	BMP180 (Air presure sensor)	Measures air presure	1	1	Aliexpress	Amazon.de		€ 0.89	€ 0.89	€ 0.89
13	MQ-7	CO sensor	1	1	Aliexpress	Amazon.de		€ 1.21	€ 1.21	€ 1.21
15	MQ-135	CO2 sensor	1	1	Aliexpress	Amazon.de		€ 1.22	€ 1.22	€ 1.22
16	Fan	Provides airflow	1	1	Aliexpress	Amazon.de		€ 1.25	€ 1.25	€ 1.25
17	Transistors	BC337 transistors	2	5	International Electronics	Aliexpress		€ 0.01	€ 0.76	€ 0.76
18	Resistors	1 Kohm, 10Kohm	2	5	International Electronics	Aliexpress		€ 0.18	€ 0.42	€ 0.42
19	XL4015 Step down buck converter	voltage step down buck converter	2	2	Aliexpress	amazon.com		€ 0.93	€ 0.93	€ 1.86
20	XL6009E1 Step-up boost converter	voltage step-up boost converter	2	1	Aliexpress	amazon.com		€ 0.61	€ 12.50	€ 0.61
21	MH CD42 battery board	Protects the battery, charges the battery and discharges the battery, provides stable 5v	2	1	Aliexpress	alibaba		€ 1.63	€ 2.03	€ 1.63
22	Switch	A simple on/off switch	2	1	Aliexpress	amazon.com		€ 0.91	€ 5.39	€ 0.91
23	Button	A simple button	2	1	Aliexpress	amazon.com		€ 0.90	€ 6.99	€ 0.90
24	Micro USB to DIP adapter	Makes it easy to connect wires to a Micro USB cable.	2	1	Aliexpress	amazon.com		€ 0.91	€ 6.99	€ 0.91
25	Heatsink	A block of metal to cool the led.	2	1	recycled			€	-	€ -
Total				33					€ 132.62	€ 103.55