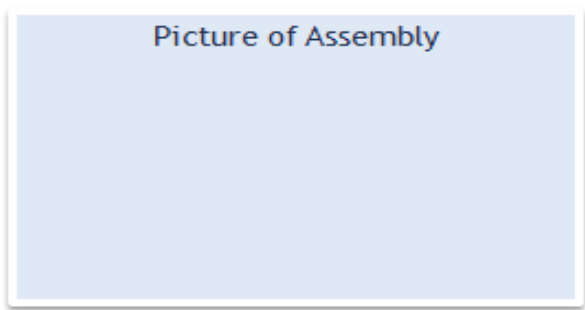


Class 1MCT3
 First Name: Jara
 Name Verbrugghe
 Project Name : The easy cat set
 Assembly Revision : _____
 Approval Date : _____
 Part Count : 28
 Total Cost : €292



(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 | Raspberry Pi 4 Model B | Raspberry Pi to control the entire system | 1 | 1 | Kiwi Electronics | SOS Solutions | 1 | € 39.95 | € 39.95 | € 39.95 |
| 2 | Raspberry Pi T-cobbler | Breakout board for Raspberry Pi | 1 | 1 | Gotron | Adafruit | 1 | € 6.95 | € 6.95 | € 6.95 |
| 3 | Resistor set | A set with different types of resistors | 1 | 1 | Amazon | Whadda | 1 | € 11.99 | € 11.99 | € 11.99 |
| 4 | Jumper wires | To connect the electronics | 1 | 1 | Whadda | Banggood | 1 | € 5.90 | € 5.90 | € 5.90 |
| 5 | Servomotor | To let out the food and change the options at the cat flap | 2 | 2 | Bol.com | Kiwi Electronics | 1 | € 4.45 | € 8.90 | € 8.90 |
| 6 | 24V Peristaltic Pump | For transporting the water from the reservoir to the drinking bowl | 1 | 1 | Grandado | Banggood | 1 | € 44.69 | € 44.69 | € 44.69 |
| 7 | Motion sensor | Detect when the cat comes through the flap. | 1 | 1 | Bol.com | Gotron | 1 | € 6.36 | € 6.36 | € 6.36 |
| 8 | One-wire temperature sensor DS18B20 | Measure the temperature in the water | 1 | 1 | Whadda | Gotron | 1 | € 12.90 | € 12.90 | € 12.90 |
| 9 | Weight sensor | Measure the amount of weight in the feeding bowl / drinking bowl | 2 | 2 | Opencircuit | Hackerstore | 1 | € 5.00 | € 10.00 | € 10.00 |

| | | | | | | | | | | |
|----|----------------------------------|---|---|-----------|--|--|---|---------|----------------|-----------------|
| 10 | Buttton | For replenishing the feeding/drinking bowl | 2 | 2 | Allekabels.be | Banggood | 1 | € 8.59 | € 17.18 | € 17.18 |
| 11 | Breadboard voeding | Can be placed on a breadboard and got 3.3V and 5V | 2 | 1 | TinyTronics | Opencircuit | 1 | € 2.50 | € 2.50 | € 5.00 |
| 12 | Power adapter | To give the circuit power | 1 | 1 | Banggood | Amazon | 1 | € 14.85 | € 14.85 | € 14.85 |
| 13 | Breadboard | To make a whole circuit | 1 | 1 | Gotron | Banggood | 1 | € 6.75 | € 6.75 | € 6.75 |
| 14 | Delock | Leads the power to a terminalblock | 1 | 1 | Bol.com | Amazon | 1 | € 6.47 | € 6.47 | € 6.47 |
| 15 | Translucent Silicone Tubing Hose | For transporting the water with the peristaltic pump | 1 | 1 | Medpets | Banggood | 1 | € 2.50 | € 2.50 | € 2.50 |
| 16 | Magnetic cat flap | The basis of the cat flap | 1 | 1 | Europoint | SupraBazar | 1 | € 49.99 | € 49.99 | € 49.99 |
| 18 | Weight module | Changes analog signals to digital signals | 5 | 2 | Opencircuit | Gotron | 1 | € 5.99 | € 11.98 | € 29.95 |
| 19 | LCD display | LCD display to display the display the important information/TP | 2 | 1 | Bol.com | Kiwi Electronics | 1 | € 5.99 | € 5.99 | € 11.98 |
| 20 | water container 5l | storage for water | 2 | 2 | Colruyt | Carrefour | 1 | € 1.10 | € 2.20 | € 2.20 |
| 21 | Design folie | Makes the product nicer | 3 | 3 | Gamma | Bol.com | 1 | € 6.29 | € 18.87 | € 18.87 |
| 22 | PVC buis | Refil the containers and fill the bowls | 1 | 1 | Gamma | Hubo | 1 | € 4.99 | € 4.99 | € 4.99 |
| 22 | Total | | | 28 | | | | | €291.91 | € 318.37 |