

Class 1MCT3  
 First Name: Klaudia  
 Name Warmus  
 Project Name : Pawbie  
 Assembly Revision :  
 Approval Date :  
 Part Count : 16  
 Total Cost : €177



| Part # | Part Name                 | Description   | Revision | Qty | Supplier                         | also available from              | Units | Unit Cost | Max Cost | Real Cost |
|--------|---------------------------|---|----------|-----|----------------------------------|----------------------------------|-------|-----------|----------|-----------|
| 1      | Water sensor              | It gives an alarm when the liquid level is low. To check the water level in the bowls                 |          | 1   | <a href="#">Kamami</a>           | <a href="#">Tme.eu</a>           | €     | 10,30     | € 10,30  | € 10,30   |
| 2      | Distance measuring sensor | Distance sensor, contact-free measuring distance. To check when the dog ate and drank                 |          | 2   | <a href="#">Farnell</a>          | <a href="#">Benl.rs</a>          | €     | 7,47      | € 14,94  | € 14,94   |
| 3      | Force sensing resistor    | Material whose resistance changes when a force of pressure is applied. For weighing food in the bowls |          | 2   | <a href="#">Botland</a>          | <a href="#">Distrelec</a>        | €     | 13,40     | € 26,80  | € 26,80   |
| 4      | Stepper motor             | For automatic pouring of water and feed   |          | 1   | <a href="#">Otronic</a>          | <a href="#">Bol</a>              | €     | 2,70      | € 2,70   | € 2,70    |
| 5      | LCD Display               | For displaying the date and time  |          | 1   | <a href="#">Fruugo</a>           | <a href="#">Hobbyelektronics</a> | €     | 7,50      | € 7,50   | € 7,50    |
| 6      | Button                    | For manual pouring water and feed   |          | 2   | <a href="#">Kiwi-elektronics</a> | <a href="#">Fruugo</a>           | €     | 2,50      | € 5,00   | € 5,00    |
| 7      | Water pump                | For pouring water   |          | 1   | <a href="#">Kiwi-elektronics</a> | <a href="#">Amazon</a>           | €     | 9,95      | € 9,95   | € 9,95    |
| 8      | Silicone hose             | For transporting water  |          | 1   | <a href="#">Kiwi-elektronics</a> |                                  | €     | 1,95      | € 1,95   | € 1,95    |
| 9      | Raspberry Pi T-Clobber    | Board for Rpi   |          | 1   | <a href="#">Adafruit</a>         |                                  | €     | 6,95      | € 6,95   | € 6,95    |

|    |                         |   |           |                                   |                                 |         |                 |         |
|----|-------------------------|---|-----------|-----------------------------------|---------------------------------|---------|-----------------|---------|
| 10 | Raspberry Pi 4gb        | Raspberry Pi to control the entire system | 1         | <a href="#">Kiwi-elektronics</a>  | <a href="#">SOS Solutions</a>   | € 59,95 | € 59,95         | € 59,95 |
| 11 | Resistor kit            | All sorts resistors                       | 1         | <a href="#">Hobby Elektronica</a> | <a href="#">Amazon</a>          | \$ 3,95 | € 3,95          | € 3,95  |
| 12 | Breadboard power supply | To power the engine                       | 1         | <a href="#">Bol</a>               | <a href="#">Otronic</a>         | \$ 6,99 | € 6,99          | € 6,99  |
| 13 | MCP3008 SPI             | For connecting sensors                    | 1         | <a href="#">Kiwi-elektronics</a>  | <a href="#">Conrad</a>          | \$ 3,50 | € 3,50          | € 3,50  |
| 14 | TIP120 Transistor       | To connect 12V DC motor (water pump)      | 1         | <a href="#">Otronic</a>           | <a href="#">Conrad</a>          | \$ 0,25 | € 0,25          | € 0,25  |
| 15 | 12V power supply        | For 12V DC motor (water pump)             | 1         | <a href="#">Allekabels</a>        | <a href="#">Otronic</a>         | \$ 8,99 | € 8,99          | € 8,99  |
| 16 | Micro SD Card           | SD Card for Raspberry Pi                  | 1         | <a href="#">Datalo</a>            | <a href="#">Discount Office</a> | \$ 6,99 | € 6,99          | € 6,99  |
|    | <b>Total</b>            |   | <b>16</b> |                                   |                                 |         | <b>€ 176,71</b> |         |