

Class 1MCT6  
 First Name: Hanne  
 Name De Meyer  
 Project Name : Smart Violin  
 Assembly Revision : 15/06/2020  
 Approval Date : 11-Mar-20  
 Part Count : 99  
 Total Cost : € 152,69



| Part #       | Part Name                      | Description                                 |
|--------------|--------------------------------|---|
| 1            | Raspberry Pi 4                 | To run everything                           |
| 2            | Raspberry Pi USB-C 3A          | Power supply for RPi                        |
| 3            | Micro-sd card 16GB             | Everything is on this                       |
| 4            | Breadboard power supply 9V     | To provide more power                       |
| 5            | T-cobbler                      | To go from breadboard to RPi and vice versa |
| 6            | breadboard                     | To connect everything together              |
| 7            | 40 pin extension board adapter | To connect breadboard and Rpi               |
| 8            | Push button                    | Stopwatch, opening the case, LCD            |
| 9            | LCD display 1602A              | To visualize different things               |
| 10           | Elektromagnet                  | Lock of the case                            |
| 11           | DHT11                          | humidity and temperature sensor             |
| 12           | Gas spring                     | Pushes suitcase open                        |
| 13           | Resistor 220Ω                  | Safety for the buttons                      |
| 14           | Male-to-female cables          | To switch the electronics                   |
| 15           | male-to-male cables            | To switch the electronics                   |
| <b>Total</b> |                                |   |

| Revision   | Qty       | Supplier | also available from   | Units | Unit Cost | Max Cost        | Real Cost       |
|------------|-----------|----------|---|-------|-----------|-----------------|-----------------|
| 29/05/2020 | 1         | Dtron    | <a href="https://www.sossoluti">https://www.sossoluti</a>                                       | Each  | 39.95 €   | € 39.95         | € 39.95         |
| 29/05/2020 | 1         | Dtron    | <a href="https://www.sossoluti">https://www.sossoluti</a>                                       | Each  | 10.95 €   | € 10.65         | € 10.65         |
| 29/05/2020 | 1         | Dtron    | Mediamarkt  | Each  | 4.99 €    | € 4.99          | € 4.99          |
| 29/05/2020 | 1         | Dtron    | <a href="https://www.diyamore">https://www.diyamore</a>   | Each  | \$ 4.00   | € 4.00          | € 4.00          |
| 29/05/2020 | 1         | Dtron    | <a href="https://www.diyamore">sion-board-adapter-4</a>   | Each  | 9.99 €    | € 9.99          | € 9.99          |
| 29/05/2020 | 1         | Dtron    | <a href="https://www.grandac">https://www.grandac</a>   | Each  | 13.00 €   | € 26.00         | € 26.00         |
| 29/05/2020 | 1         | Dtron    | <a href="https://www.grandac">https://www.grandac</a>   | Each  | 9.99 €    | € 9.99          | € 9.99          |
| 29/05/2020 | 3         | Dtron    | <a href="https://nl.banggood.com">https://nl.banggood.com</a>                                   | 3     | 0.61 €    | € 1.83          | € 1.83          |
| 29/05/2020 | 2         | Dtron    | <a href="https://www.bitsandpar">https://www.bitsandpar</a>                                     | 1     | 4.75 €    | € 4.75          | € 4.75          |
| 29/05/2020 | 1         |          | <a href="https://be">https://be</a> <a href="https://www.kiwi-elec">https://www.kiwi-elec</a>   | Each  | 9.00 €    | € 9.00          | € 9.00          |
| 29/05/2020 | 1         |          | <a href="https://wv">https://wv</a> <a href="https://www.bitsandpar">https://www.bitsandpar</a> | Each  | 2.75 €    | € 0.40          | € 0.40          |
| 29/05/2020 | 2         |          | <a href="https://wv">https://wv</a> <a href="https://www.bol.com">https://www.bol.com</a>       | 2     | 10.50 €   | € 21.00         | € 21.00         |
| 29/05/2020 | 3         | Dtron    | <a href="https://www.bitsandpar">https://www.bitsandpar</a>                                     | 3     | 0,08€     | € 0,24          | € 0,24          |
| 29/05/2020 | 40        | Dtron    | <a href="https://www.bitsandpar">https://www.bitsandpar</a>                                     | 1     | 4,95€     | € 4,95          | € 4,95          |
| 29/05/2020 | 40        | Dtron    | <a href="https://www.bitsandpar">https://www.bitsandpar</a>                                     | 1     | 4,95€     | € 4,95          | € 4,95          |
|            | <b>99</b> |          |   |       |           | <b>€ 152,69</b> | <b>€ 152,69</b> |