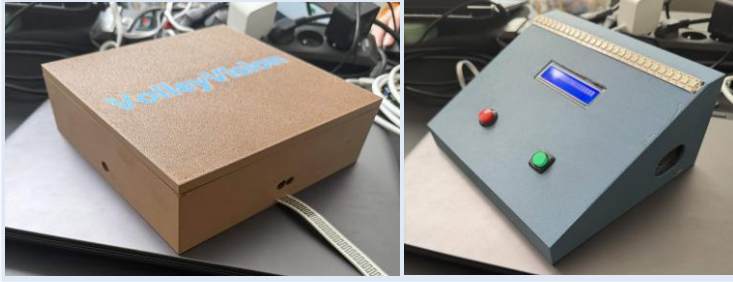


|                     |              |
|---------------------|--------------|
| Class               | 1MCT1        |
| First Name:         | Syben        |
| Name                | Van Hoecke   |
| Project Name :      | VolleyVision |
| Assembly Revision : | 1            |
| Approval Date :     | 23-Mar-26    |
| Part Count :        | 15           |
| Total Cost :        | €346         |

| Part # | Part Name                     | Description                                 | Revision | Qty |
|--------|-------------------------------|---|----------|-----|
| 1      | Raspberry Pi 5                | Webinterface + central unit for the project | 1        | 1   |
| 2      | ESP-32 dev board              | Reading sensor data                         | 1        | 1   |
| 3      | SF15-600 Force Sensor         | Force sensor                                | 1        | 1   |
| 4      | TOF IR-afstandssensor SEN0413 | Single-point laser sensor                   | 1        | 1   |
| 5      | KY-038 microfoon              | Microphone sensor                           | 1        | 1   |
| 6      | Speakers                      | 2 speakers as audible feedback              | 1        | 1   |
| 7      | Stereo Amplifier              | Sound amplifier for the speakers            | 1        | 1   |
| 8      | LED strip                     | WS2812B RGB LED Strip 1m as visual feedback | 1        | 1   |
| 9      | Powersupply/adapter           | 5V 3A power supply for the LED strip        | 1        | 1   |
| 10     | Raspberry Pi 5 voeding        | 5V 5A power supply for the Raspberry Pi     | 1        | 1   |

|              |   |   |   |           |
|--------------|---|---|---|-----------|
| 11           | ESP-32 voeding                              | 5V 3A power supply for the ESP32                                  | 1 | 1         |
| 12           | LCD Scherm                                  | LCD screen to show the Ip address and extra information           | 1 | 1         |
| 13           | 16mm Pushbutton with LED                    | A fysical button to start the serve                               | 1 | 1         |
| 14           | 16mm Panel Mount Momentary Pushbutton - Red | A fysical button to stop the serve and shut the Raspberry Pi down | 1 | 1         |
| 15           | Micro SD kaartje                            | Micro SD for the Raspberry Pi 5                                   | 1 | 1         |
| 16           | 6x3 mm N52 magnets                          | Magnets to close the enclosures                                   | 1 | 50        |
| 17           | USB-C connector                             | USB-C connector to power the LED strip                            | 1 | 6         |
| <b>Total</b> |   |   |   | <b>15</b> |

### Picture of Assembly



(picture can only be added with END delivery of pro

| Supplier   | also available from | Units | Unit Cost |
|--|---------------------|-------|-----------|
| <a href="#">l_campaignid=20328883177&amp;qclid=CjwKCjIbEv2lJgDW_87V9m0XBHQdg</a>             |                     | 1     | € 187.54  |
| <a href="#">om.be/-/en/dp/B0DJ33NNRD?ref=ppx_yo2ntboard?srsltid=AfmBOopFwU</a>               |                     | 1     | € 7.03    |
| <a href="#">Code=df0&amp;hvadid=713024170007&amp;hvpos=utm_source=google&amp;utm_medi</a>    |                     | 1     | € 16.04   |
| <a href="#">pencircuit.be/product/tof-ir-distance-sensor-meer.nl/TOF-IR-afstandssenso</a>    |                     | 1     | € 23.50   |
| <a href="#">=cpc&amp;utm_campaign=BE+-+PMAX+-+NonzB99nUYfmeWDkCvIFmbDjDW</a>                 |                     | 1     | € 2.49    |
| <a href="#">Electronic/dp/B09PL6XFHB?source=ps-sl-er-fur-arduino-raspberry-pi-und-</a>       |                     | 1     | € 7.29    |
| <a href="#">lifier/dp/B09PL6VJZ9?source=ps-sl-shoppir-mit-potentiometer-fur-diy-lauts</a>    |                     | 1     | € 4.99    |
| <a href="#">nkCode=df0&amp;hvadid=767837231459&amp;hvpc/led-strips/led-strips/ws2812b-d</a>  |                     | 1     | € 11.22   |
| <a href="#">campaignid=21100703951&amp;qclid=Cj0KCQiMaAqwcEALw_wcB&amp;utm_sourc</a>         |                     | 1     | € 12.00   |
| <a href="#">.gad_campaignid=19917888381&amp;qclid=Cj0FF8&amp;condition=new&amp;tag=tweak</a> |                     | 1     | € 13.18   |

|  |   |   |         |
|--|---|---|---------|
| <a href="#">campaignid=19917888381&amp;gclid=CjwKCAivadid=714465333103&amp;hvpos=</a>      | / | 1 | € 13.99 |
| <a href="#">.be/-/en/dp/B0B76YGDV4?ref=ppx_yo2ov_srsltid=AfmBOopTT-VdDrQCpc</a>            | / | 1 | € 8.95  |
| <a href="#">onics.com/en/16mm-pushbutton-with-led-r</a>                                    | / | 1 | € 1.80  |
| <a href="#">onics.com/en/16mm-panel-mount-momentan-panel-mount-momentary-pus</a>           | / | 1 | € 1.56  |
| <a href="#">-PMAx-C-22294143100&amp;gad_source=1&amp;gclid=df0&amp;hvadid=714430882267</a> | / | 1 | € 16.20 |
| <a href="#">.be/-/nl/dp/B07Z8XRBNB?ref=ppx_pop_dt</a>                                      | / | 1 | € 0.20  |
| <a href="#">.com.be/dp/B0C6D3MXK9?ref=ppx_yo2ov</a>  | / | 1 | € 1.33  |

object!)

| Max Cost | Real Cost |
|----------|-----------|
| € 187.54 |           |
| € 7.03   |           |
| € 16.04  |           |
| € 23.50  |           |
| € 2.49   |           |
| € 7.29   |           |
| € 4.99   |           |
| € 11.22  |           |
| € 12.00  |           |
| € 13.18  |           |

€ 13.99

€ 8.95

€ 1.80

€ 1.56

€ 16.20

€ 10.18

€ 7.98

**€ 345.94**