COMPONENTS LIST FOR GESTURE SWITCH

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| S/N | ITEM | LINK | REMARK |
| 1 | Raspberry PI4 (4GB) | [Amazon($147.99)](https://www.amazon.com/Raspberry-Model-2019-Quad-Bluetooth/dp/B07TC2BK1X/ref=sr_1_3?crid=1I8ADLH80OZES&keywords=raspberry+pi4&qid=1663889999&sprefix=raspberry+pi4%2Caps%2C635&sr=8-3) | Main SBC |
| 2 | Level shifter | [Amazon 10 pcs ($5.98)](https://www.amazon.com/VKLSVAN-Channels-Converter-3-3V-5V-Bi-Directional/dp/B08C9PFVGP/ref=sr_1_11?crid=2N1QLUUBF6A86&keywords=level+shifter&qid=1663890140&sprefix=level+shifte%2Caps%2C367&sr=8-11) | For the buzzer and led strip  **\*\*no longer required** |
| 3 | LED strip | [Amazon 3Ft ($12.99)](https://www.amazon.com/WS2812B-Individual-Addressable-144Pixels-Non-Waterproof/dp/B09PBGZMNS/ref=sr_1_7?crid=3EPIM87K387GR&keywords=addressable%2Bled&qid=1663890276&sprefix=addressible%2Bled%2Caps%2C341&sr=8-7&th=1) | State indicator/ Visual Feedback  **\*\* no longer required** |
| 4 | Case  or  Case 2 | [Amazon($49.90)](https://www.amazon.com/anidees-Aluminum-Extra-Raspberry-Model/dp/B07WWPJZKS/ref=sr_1_21?crid=L8D8VIF3I6O2&keywords=raspberry%2Bpi%2B4%2Bcase%2Bwith%2Bbattery&qid=1663456175&sprefix=raspberry%2Bpi4%2Bcase%2Bwith%2Bb%2Caps%2C428&sr=8-21&th=1)  or  [Amazon($23.99)](https://www.amazon.com/Geekworm-X728-C1-Cooling-Switch-Raspberry/dp/B09Z6C64NN/ref=sr_1_1?keywords=X728-C1&qid=1663893772&sr=8-1) | Case 2 is designed for battery pack 2 |
| 5 | TOF Sensor | [Amazon 2pc ($12.99)](https://www.amazon.com/Organizer-VL53L0X-Breakout-GY-VL53L0XV2-Distance/dp/B07XXTMRR2/ref=sr_1_1?crid=2CG1NQ7E0CHT7&keywords=vl530x&qid=1663894151&sprefix=vl530x%2Caps%2C296&sr=8-1&th=1) | Input Sensor |
| 6 | Buzzer | [Amazon($6.99)](https://www.amazon.com/RuiLing-Decibels-Continuous-Sounder-Electronic/dp/B07NK8MGL9/ref=sr_1_7?crid=TG3CVPEJGGC&keywords=active+buzzer&qid=1663894397&sprefix=active+buzzer%2Caps%2C326&sr=8-7) | Audio Feedback |
| 7 | Power Brick | [Amazon ($9.99)](https://www.amazon.com/sspa/click?ie=UTF8&spc=MTo4NjI5NzYwMDMxMDEzNjUwOjE2NjM5MzUyNDQ6c3BfYXRmOjIwMDA2ODg2ODk4Mzc5ODo6MDo6&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&url=%2FMARSTUDY-Raspberry-Supply-USB-C-Switch%2Fdp%2FB08136G98S%2Fref%3Dsr_1_2_sspa%3Fcrid%3D3SD3CDS5J3WLZ%26keywords%3Draspberry%2Bpi%2B4%2Bpower%2Bsupply%26qid%3D1663935244%26sprefix%3Draspberry%2Bpi%2B4%2Bpower%252Caps%252C421%26sr%3D8-2-spons%26psc%3D1) | Power Supply |
| 8 | SD card | [Amazon($18.99)](https://www.amazon.com/sspa/click?ie=UTF8&spc=MTo4MzU1OTA0ODM5MTI1MDY1OjE2NjM5MzU1MzE6c3BfYXRmOjIwMDA1NTQ1NzE1Nzc5ODo6MDo6&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&url=%2FSTEADYGAMER-Raspberry-Preloaded-RASPBIAN-Compatible%2Fdp%2FB07LGS1L4J%2Fref%3Dsr_1_1_sspa%3Fcrid%3D2181JYQS6U0CW%26keywords%3Draspberry%2Bpi%2B4%2BSD%2Bcard%26qid%3D1663935531%26sprefix%3Draspberry%2Bpi%2B4%2Bsd%2Bcard%252Caps%252C340%26sr%3D8-1-spons%26psc%3D1) | 32GB |
| 9 | RGB\_LED | [Amazon($8.99)](https://www.amazon.com/EDGELEC-Tri-Color-Multicolor-Diffused-Resistors/dp/B077XGF3YR/ref=sr_1_3?crid=2FL8QCUJ88KXQ&keywords=rgb%2Bled%2Bcommon%2Bcathode&qid=1664318149&qu=eyJxc2MiOiIyLjYzIiwicXNhIjoiMi41MCIsInFzcCI6IjIuNDMifQ%3D%3D&sprefix=RGB%2Bled%2Bcommon%2Bcathode%2Caps%2C823&sr=8-3&th=1) | It comes with a pack of resistors |
| 10 | Battery backup1  or  Battery backup2 | [Amazon($19.99)](https://www.amazon.com/SunFounder-Raspberry-Supports-Expansion-Compatible/dp/B09QKJTQKJ/ref=sr_1_3?crid=2KGIR80F6GWV2&keywords=raspberry+pi+4+ups&qid=1664318493&qu=eyJxc2MiOiI0LjEyIiwicXNhIjoiMy45OSIsInFzcCI6IjMuNzEifQ%3D%3D&sprefix=rasp%2Caps%2C4368&sr=8-3)  or  [Amazon($45.99)](https://www.amazon.com/Geekworm-Raspberry-Management-Detection-Shutdown/dp/B087FXLZZH/ref=sr_1_4?crid=2KGIR80F6GWV2&keywords=raspberry+pi+4+ups&qid=1664318493&qu=eyJxc2MiOiI0LjEyIiwicXNhIjoiMy45OSIsInFzcCI6IjMuNzEifQ%3D%3D&sprefix=rasp%2Caps%2C4368&sr=8-4) | Battery backup2 will work best with case 2 |