COMPONENTS:

| **COMPONENT** | **REASON** | **Where to buy** | **DATASHEETS** |
| --- | --- | --- | --- |
| N20 Gear Motors | Wheels for motor | <https://shorturl.at/xfgjW> | <https://shorturl.at/QoJQg>  <https://www.handsontec.com/dataspecs/GA12-N20.pdf> |
| L298N Dual Channel Motor Driver | Motor Driver for everything | <https://shorturl.at/mPgyJ> | <https://www.st.com/resource/en/datasheet/l298.pdf>  <https://www.handsontec.com/dataspecs/L298N%20Motor%20Driver.pdf> |
| Mecanum Wheels | Wheels | https://shorturl.at/FXVYd |  |
| RS380 DC Motor | Vertical Spinners | https://www.amazon.com/Torque-RS-380-16000RPM-Carbon-Electric/dp/B0B49RSSVZ | https://www.handsontec.com/dataspecs/motor\_fan/380-Motor.pdf |
| ESP 32 version 1 | Microcontroller2 | https://www.digikey.com/en/products/detail/espressif-systems/ESP32-DEVKITC-32E/12091810 | <https://www.espressif.com/sites/default/files/documentation/esp32-wroom-32_datasheet_en.pdf> |
| ESP 32 version 2 | Microcontroller | <https://www.amazon.com/Espressif-ESP32-WROOM-32E-Module-Antenna-ESP-32E/dp/B09BRK6DQQ?tag=namespacebran492-20&th=1> | <https://www.espressif.com/sites/default/files/documentation/esp32-wroom-32e_esp32-wroom-32ue_datasheet_en.pdf> |
| Servo Motor MG996R | Flipper Arm | https://shorturl.at/yqWJ5 | <https://shorturl.at/qM47s>  <https://components101.com/motors/mg996r-servo-motor-datasheet>  <https://components101.com/sites/default/files/component_datasheet/MG996R%20Datasheet.pdf> |
| Voltage Step Down | 6V to 3.3V | <https://www.digikey.com/en/products/detail/diodes-incorporated/AZ1117CD-3-3TRG1/4470979> | <https://www.diodes.com/assets/Datasheets/AZ1117C.pdf> |
| Voltage boosters | 3.3V to 6V | <https://www.digikey.com/en/products/detail/texas-instruments/LM2623MM%2FNOPB/483063> | <https://shorturl.at/wZ2Ec> |
| Schottky diode | Flyback Diodes | https://shorturl.at/2P2RQ | <https://www.vishay.com/docs/88525/1n5817.pdf> |
| 6 - 5V step down |  |  | https://www.ti.com/lit/ds/symlink/lm78m05-mil.pdf?ts=1729423284597&ref\_url=https%253A%252F%252Fwww.google.com%252F |