Motor Research

<https://www.amazon.com/JUZITAO-Motor-3V-6V-Gearbox-Motorfor/dp/B0CQ7WLZF9/ref=sr_1_6?dib=eyJ2IjoiMSJ9.xDSYQWV64jRZuTitsYuIoh5Ne45LEvKhJOZzAABS8P96TkjpnoPzTLA51kb3o4_m5I1S7GG3n9SPFAZSGSX3Nq04MUNblZSpDGSI7F5RX9pKqbT62ZtfQJuU3m9Va7NJ3DusmntxOi0qeSKu9whi9ElaGZl8rx7aMVEg96NiFNrmlyNSTxkWib-Iv3BooR9T9uEKDPKcCN_FKimEttDqIg2WXD4bXguyfg5pxbm3XFkvczsFxI8uT8nUcFKEPiXuE68MyBTdG_UNTFJRfrmuhtM6mZ74Z3nFnoR32iJ9PUs.uNamHgfGHBGsKVS9nc_1fGK2IZUNV1seQWJGYrFGkCU&dib_tag=se&keywords=n20+motor&qid=1726521688&sr=8-6>

* Brushless DC Motors
  + efficient, powerful, great torque
  + example: Turnigy Aerodrive SK3 Series,
    - commonly used in Smaller robots
    - typically operates between 7-24V depending on the size
* Planetary Gear Motors
  + more torque for the flipping mechanism (to lift or flip an opponent)
  + built-in reduction gears to provide higher torque.
  + Example: Pololu’s 25D Metal Gearmotors
    - various gear ratios to adjust the torque output.
    - 12V versions work well for small robots
* Servo Motors (High Torque)
  + precise control of the flipping mechanism
  + Example: Power HD 1235MG Servo,
    - capable of lifting up to 35 kg-cm torque
  + typically operates at 6V to 7.4V

Wheel Research

* <https://www.walmart.com/ip/Mecanum-Wheel-Smart-Robot-Car-Parts-Accessories-OmniDirectional-DIY-Toy-Components-48mm-1-Pair/10654567854?wmlspartner=wlpa&selectedSellerId=102516168>
  + Ten mini wheels on each component that can move in any direction

