MiniTriangle:

The robot uses 3 Omni wheels (Width: 40mm) that are driven by 3 DC motors -Thunder Power Z3R -. Omnidirectional robot can move in all directions without steering their wheels and it can rotate clockwise and counter-clockwise with reference to their axis. This makes the robot useful in a large variety of indoor environment. It provides high mobility in comparison to the more common car-like robots. The motors are connected to gearboxes of 26:1 ratio along with three motor driver PCBs. Motor drivers are connected to the microcontroller to receive the movement command from it. 2 Li-Po batteries are used to run the robot and each could provide a 7.4V and 5000mAH. Moreover, boost converter gets its input voltage from the batteries and the output goes to the NUC as the NUC needs a 19V input.

