

Our robot's construction is made entirely out of 3D printed PLA plastics and custom made PCB.

The robot contains 12 line sensors, 18 IR sensors, 8 lidars, 5 ultrasonic sensors, IMU, camera, several switches and two buttons. The robots are actuated with the help of four brushed DC motors and 4 omnidirectional wheels. As the microcontroller, Teensy 3.6 is used and it is programmed with the help of Arduino IDE and Sublime Text, thus all programming is done in c++. The main features of our robots are speed and agility which were in the centre while we were designing them.