Software:

Complete Object Oriented sofrware

Interfaced with ArduinoOS

Positioned by Kalman Filter

Eletronic:

4 – IR Distance sensor

4 – Ultrasonic Sensor

8 – Analogic IR Sensor with band pass filter

16 – IR digital sensor

1 - 9 axis IMU with Sensor Fusion Quaternion Output

1 – 5” TFT LCD 800-480 with Touch screen

1 – Serial Bluetooth - Xbee

1 – ARM Cortex M3 - 100MHz

1 – AtMega 328 - 16MHz

Mechanics:

100% - Developed on SolidWorks

4 – Designed Omnidirectional Wheels

4 – High torque motors

2 – High torque servos

4mm - Carbon Fiber with Triaxial Kevlar Chassi