

Bogobots-TecMTY humanoid Kid-Size Team 2013

Alejandro Aceves-López, Sergio-Vladimir Alcala-Alcaraz, Lessly-Marlene Sabido-Calzada, Erick-Rogelio Cruz-Hernández, Guillermo Villarreal-Pulido

Tecnológico de Monterrey, Campus Estado de México, Carr. Lago de Guadalupe Km. 3.5 Col. Margarita Maza de Juarez, 52926, Atizapán, México

aaceves@itesm.mx, sv.alcala@me.com, lessly.sabido@gmail.com,
erick.cruz.h@gmail.com, emogrr18@hotmail.com

Bogobot-2 specifications



Robot name: Bogobot - 2
Height, Width, Deep and Weight: 52cm, 18cm, 12cm, 3.5Kg.
Walking speed: 20cm/seg.
DOF: Total 18DOF: 5 per leg, 3 per arm and 2 on head
Type of motors: 10 Dynamixel RX-28 and 8 Dynamixel RX-24F.
Computing unit(s): FitPC2 @2GHz, 2GB RAM, SSD, with WiFi
Camera(s): HD RocketFish webcam @ 25 fps.
Sensors: ITG-3200 dual-axis gyroscope, ADXL345 Accelerometer.
Built with: Dynamixel brackets, custom-made aluminum and carbon fiber.
Energy Supply: Li-Po 14.8V, 3900mAh.

DARwin-OP specifications



Robot name: DARwin-OP
Height, Width, Deep and Weight: 45.5cm, 15cm, 12cm, 2.8Kg.
Walking speed: 24.0 cm/sec
DOF: 20 actuators (6 DOF per leg + 3 DOF per arm + 2 DOF neck)
Type of motors: Dynamixel Rx28M (Mx28).
Computing unit(s): FitPC2, 1.6 GHz Intel Atom Z530 4GB flash SSD & WiFi
Camera(s): HD USB camera
Sensors: 3-axis gyro, 3-axis accelerometer, 3 buttons, 2 microphones
Built with: Aluminum brackets
Energy Supply: One battery: Li-Po 1Ah 12v.