

Bogobots-TecMTY humanoid kid-size team 2010

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Abstract. This document lists the specifications of Bogobots-TecMTY.

Keywords: Humanoids, perception systems, walking-speed.

Robot Specification



Robot name: Bogobot-TecMTY
Height, Width, Deep and Weight: 45cm, 17cm, 10cm, 2.5Kg.
Walking speed: 12cm/seg
DOF: Total 20DOF: 6 per leg, 3 per arm and 2 on head
Type of motors: Hitec 14 servomotors HSR-5990TG, 4 servomotors HSR-8498HB and 2 servomotors HS-5645MG.
Computing unit(s): DSPic 30F4013 in a custom-built card
Camera(s): CMUcam3
Sensors: IDG300 dual-axis gyroscope, ADXL330 Accelerometer
Built with: Lynxmotion brackets and custom-made aluminum
Energy Supply: Two batteries: Li-Po 1.3Ah 12v, Li-Po 2.6 Ah 7.4v