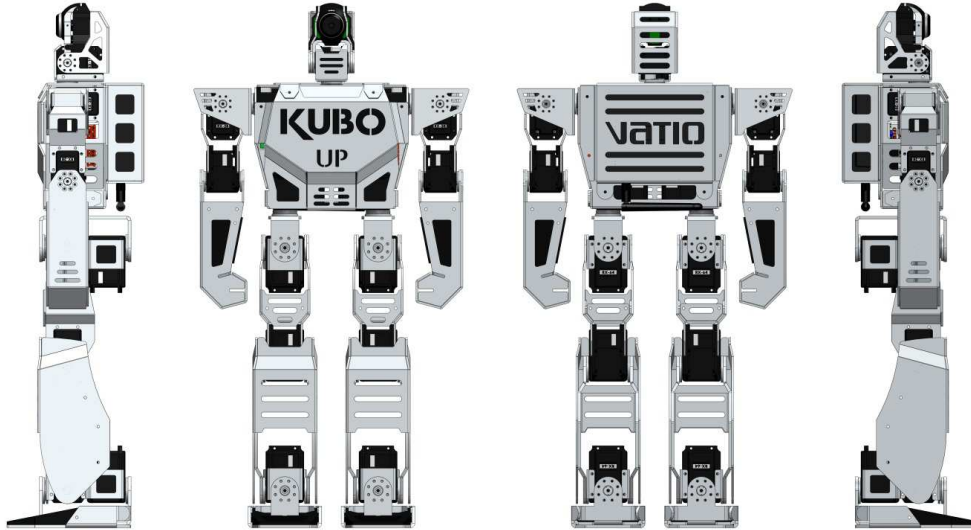


Team VATIO-UP One-Page specifications

RoboCup 2014 - *João Pessoa, Brasil*. Humanoid League, Kid Size

1.- Robot picture.



2.- Robot Name.

The team consists of three robots with the same structure and components: **KUBO**, **AXIS** and **LOLA**.

3.- Number of degrees of freedom: 20 DOF

4.- Height, weight and walking speed: 60 cm, 5.4 kg, 0.22 m/s

5.- Type of motors and controller.

Dynamixel – 8 RX28 (arms and head) and 12 RX64 (legs). The controller is CM700 with a module LN101 for USB 2.0 communication between the main computing unit and servomotors.

6.- Computing unit.

FitPc2 single board computer with Intel Atom Z530 @ 1.6 GHz, 2GB DDR3-1600, 30 GB SSD, and using Linux Mint as OS.

<http://www.fit-pc.com/web/products/fit-pc2/>

7.- Camera.

CMUcam4, or WebCam Logitech E3500, via USB 2.0 port.

<http://www.cmucam.org/projects/cmucam4/>

8.- Sensors

CHR-UM6 Orientation sensor, Gyros (3x), Accels (3x), Mag (3x). Estimation in Roll, Pitch, Yaw, Quaternion.

<http://www.pololu.com/catalog/product/1255>

9.- Batteries

Two packages of rechargeable LiPo batteries of 18.5 volts at 25C 750mAh.