1.- Robot picture.

![Robot Image]

2.- Robot Name.

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

3.- **Number of degrees of freedom**: 20 DOF

4.- Height, weight and walking speed: 60 cm, 5.4 kg,

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**.

Fit-PC2 single board computer with Intel Atom Z530 CPU @ 1.6 GHz, 1GB DDR2, 30 GB SSD, and using WIN XP as OS.


7.- **Camera**.

WebCam Logitech E3500, via USB 2.0 port, or Firefly MV 1.3 MP Color Rolling Shutter USB 2.0


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](http://www.pololu.com/catalog/product/1255)

9.- **Bateries**

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