



Robot Names

- Robo Ochoa** (goalkeeper)
- Roboldinho** (striker)
- Yet unnamed** (striker)

Robot Specifications

| | | |
|-------------------------------|-----------------------------------|--|
| Physical specs: | Height | 37cm |
| | Weight | 1345g |
| | Walking speed | 10cm/s |
| Degrees of freedom: | 18 DOF | 5 DOF on each leg 3 DOF on each arm 2 DOF on the head |
| Servo motors: | 16 HSR-8498HB digital servomotors | by Hitec HMI serial interface Karbonite gears 6V-7.4V operating range 7.4 kg cm @ 6V (stall torque) 1200 mA @ 6V (stall current) 8 mA @ 6V (idle current) 300°/s @ 6V (max speed) |
| | 2 CS-12MG micro servomotors | by Hobbico RC-PWM interface Metal gears |
| Exteroceptive sensors: | 1 CMUcam3 vision system | CIF and QCIF resolutions RGB, YCrCb and HSV color spaces Averlogic AL4V8M440 1MB FIFO max rate 50FPS 32-bit ARM7TDMI based microcontroller |
| | 1 CMPS03 digital compass | by Devantech I ² C interface |
| | 2 PK3 gyroscopes | by Multiplex RC-PWM interface |
| | 1 ADXL330 3-axis accelerometer | by Analog Devices Analog voltage interface |
| Processing units: | MR-C3024 computing unit | Atmel ATmega128 microcontroller 8-bits |
| | CMUcam3 computing unit | Philips LPC2106 microcontroller based on the 32-bit ARM7TDMI core |