


Pumas-UNAM : Specifications Page

Adalberto LLarena, Boris Escalante, Luis Torres, Verónica Abad, Lauro Vázquez


Bio-Robotics Laboratory, Department of Electrical Engineering
 Universidad Nacional Autónoma de México, UNAM
adallarena@aol.com

1.-Robot Picture	 <p data-bbox="580 1193 1299 1249">Note: We have three robots with exactly the same characteristics and hardware</p>
2.- Names	<p data-bbox="580 1301 1299 1357">“<i>Mixtli</i>” (<i>puma</i> in nahuatl), “<i>Tafari</i>” (last Ethiopia’s emperor), and “<i>Riu</i>” (<i>dragon</i> in Japanese)</p>
3.- DOF	<p data-bbox="580 1413 820 1442">Total: 16. 5 in each leg.</p>
4.-Computing Unit	<p data-bbox="580 1494 1299 1550">Micom MR-C3000 with ATmega 128 MPU 8bit RISC at 7.3728Mhz, with 32K flash memory and a 1Gb SD Memory Card.</p>
5.- Walking Speed	<p data-bbox="580 1606 956 1635">Walking: 0.05 m/s. Running: 0.16 m/s</p>
6.- Camera	<p data-bbox="580 1686 1299 1771">CMU Cam 3 camera. This camera is equipped with a Philips LPC2106 processor, 64 Kb RAM, 128 Kb ROM, serial port and SD card slot. It can grab RGB and YCrCb images up to 352 by 288 pixels at rates of 26 FPS.</p>
7.- Sensors	<p data-bbox="580 1825 1011 1854">M75501 gyroscope and GP1S036 tilt sensor</p>
8.- Other Specs	<p data-bbox="580 1906 1299 1935">Height: 375 mm. HCOM : 185 mm, Weight: 1.6 kg. Foot Area: 46.6 cm²</p>

Pumas-UNAM : Specifications Page

Adalberto LLarena, Boris Escalante, Luis Torres, Verónica Abad, Lauro Vázquez

Bio-Robotics Laboratory, Department of Electrical Engineering
 Universidad Nacional Autónoma de México, UNAM
adallarena@aol.com

1.-Robot Picture	<div style="text-align: center;">  </div> <p>Note: We have three robots with exactly the same characteristics and hardware</p>
2.- Names	<i>“Hugo”, “Tuca” and “Brody”</i>
3.- DOF	Total: 22. 7 in each leg.
4.-Computing Unit	Micom MR-C3000 with ATmega 128 MPU 8bit RISC at 7.3728Mhz, with 32K flash memory and a 1Gb SD Memory Card.
5.- Walking Speed	Walking: 0.09 m/s. Running: 0.24 m/s
6.- Camera	CMU Cam 3 camera. This camera is equipped with a Philips LPC2106 processor, 64 Kb RAM, 128 Kb ROM, serial port and SD card slot. It can grab RGB and YCrCb images up to 352 by 288 pixels at rates of 26 FPS.
7.- Sensors	M75501 gyroscope, GP1S036 tilt sensor, HMC6352 Spark Fun Compass, SparkFun Electronics - Triple Axis Accelerometer Breakout - ADXL330
8.- Other Specs	Height: 432 mm. HCOM : 225 mm, Weight: 2.4 kg. Foot Area: 63 cm ²