

AUT-UofM Humanoid TeenSize Robots Specification Paper

RoboCup 2015 Humanoid TeenSize Robot League

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Robot Name: *ARASH*

Specification:



| | |
|-----------------------------|---|
| Height | 100 Cm |
| Weight | 7.5 Kg |
| Walking Speed | 35 cm/s |
| Degrees of Freedom | 20 in total (2x3 in hands, 2x6 in legs, 2 in neck) |
| Type of Motors | ROBOTIS Dynamixel® (MX-28, MX-64 and MX-106) |
| Sensors | 1- GY-80 9DOF IMU (lower body) 2- MPU 9150 (upper body) |
| Camera | Logitech C905 Camera |
| Resolution | 640*480 pixels |
| Computing Unit | QuanMax® QutePc3001 CPU: 1.1 GHz Intel Memory: 2 Gb DDR3 RAM and 32Gbyte of SSD. |
| Low level controller | ROBOTIS OpenCM9.04 (ARM Cortex M3 @72Mhz) |
| Wi-Fi Module | Wi-Fi 802/11 - 2.4Ghz |
| Battery | 14.8v, Li-Po 6800mAh |