

AUTMan Humanoid Kid Size Robots Specification Paper

RoboCup 2016 Humanoid Kid Size Robot League

¹*Bio-Inspired System Design Lab (BInSDeL)*
 Amirkabir University of Technology (Tehran Polytechnic),
 No. 424, Hafez Ave., Tehran, IRAN., P. O. Box 15875-4413.
<http://autman.aut.ac.ir>

²Autonomous Agents Laboratory
 University of Manitoba, Winnipeg, Canada, R3T 2N2
<http://aalab.cs.umanitoba.ca>

*llobot Name: **KIARASH-OP***

Specification:



| | |
|---------------------------|---|
| Height | 60 Cm |
| Weight | 3.5 Kg |
| Walking Speed | 30 Cm/Sec |
| Degrees of Freedom | 20 in total: 6 in each leg 3 in each arm 2 in neck |
| Type of Motors | Herkulex DRS-0402 DRS-0201 DRS-0101 |
| Sensors | IMU Mpu6050 Microphone RT5443 FSR Self Design |
| Camera | Logitech C920 |
| Resolution | HD |
| Computing Unit | Max-data QutePc3020 1.6 GHz Intel Atom 1 Gb DDR2 memory |
| Accelerometer | ADXL345 |
| Wi-Fi Module | H-WiFi module bases on HED's AirQuick™ |
| Battery | 18.5v, Li-Po 4000mAh |