

## ROBOT SPECIFICATION

### PHYSICAL SPECIFICATIONS

|                      |      |
|----------------------|------|
| Height (cm)          | 45.5 |
| Weight (kg)          | 2.9  |
| Walking Speed (cm/s) | 15   |

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### DEGREES OF FREEDOM

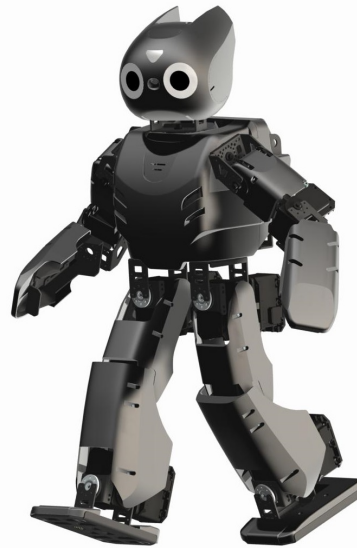
|              |           |
|--------------|-----------|
| Legs (each)  | 6         |
| Arms (each)  | 3         |
| Neck         | 2         |
|              |           |
| <b>Total</b> | <b>20</b> |

### MOTORS AND SENSORS

|                             |     |
|-----------------------------|-----|
| Dynamixel MX-28 Servo       | x20 |
| C905 USB 2MP Camera w/ Mic. | x1  |
| Additional Microphone       | x1  |
| 3-axis Gyroscope            | x1  |
| 3-axis Accelerometer        | x1  |

### COMPUTING UNITS

|                             |         |
|-----------------------------|---------|
| Intel Atom ZS30             | 1.66GHz |
| CM730 Management Controller | 72MHz   |



DARwIn-OP Robot.



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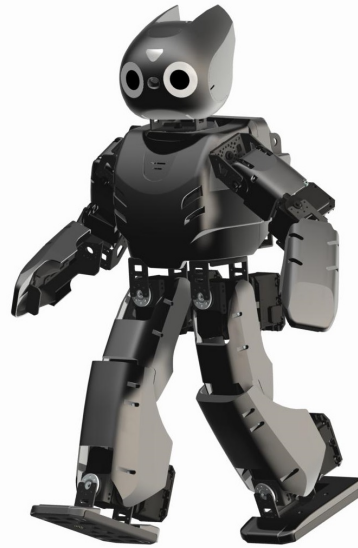
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### MOTORS AND SENSORS

|  |     |
|--|-----|
| Dynamixel MX-28 Servo                                    | x20 |
| C920 USB HD 1080p Camera w/<br>Stereo Microphone         | x1  |
| 6-axis Gyroscope + Accelerometer +<br>Temperature Sensor | x1  |

### COMPUTING UNITS

|                               |        |
|-------------------------------|--------|
| ARM Cortex-A15 Quad Core      | 1.6GHz |
| TAJ3850 Management Controller | 96MHz  |



NUDARwIn-OP Robot.

DARwIn-OP robot with a possibly modified head to fit  
new camera.

