

Specifications for RO-PE-VI and RO-PE-VII of Team RO-PE

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o Image of ROPE VI:



o Name of robot (or robot type) : RO-PE-VI

o Height : 57cm

o Weight : 3.5kg

o Walking/running speed : 0.2m/sec

o Number of degrees of freedom (DOF) : 19

o Actuators used:

Robotis RX-28

Holding Torque: 28.0kgcm at 12.0 Volt

Speed: 0.167Sec / 60 degrees at 12.0 Volt

Robotis RX-64

Holding Torque: 53.0kgcm at 15.0 Volt

Speed: 0.198Sec / 60 degrees at 15.0 Volt

o Sensors used:

A4-Tech Web Camera

CMOS 640x480

Crossbow Accelerometer CXL04LP3

Span: +/- 4g

Sensitivity: 500 mV/g

Silicon Sensing Systems, CRS03-02

Rate range: +/- 100deg/sec

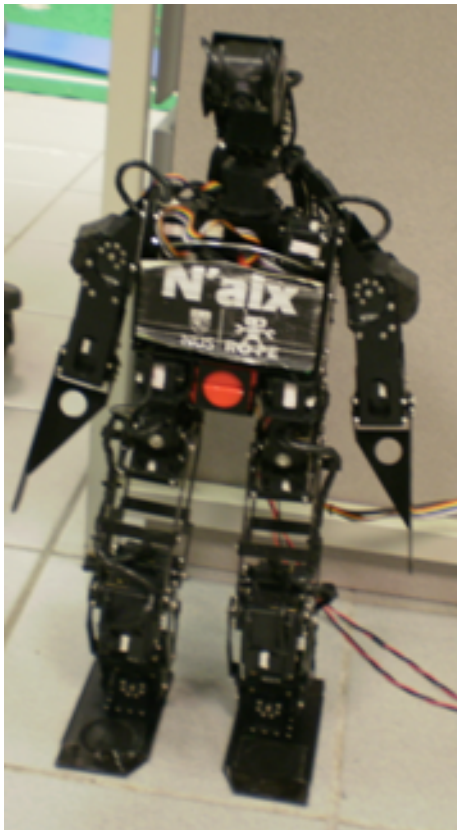
o Processor:

Cool Roadrunner LX-800

PC/104-Plus CPU Board

Speed: 500MHz

o Image of ROPE VII:



o Name of robot (or robot type) : RO-PE-VII

o Height : 58cm

- o Weight : 3.3kg
- o Walking/running speed : 0.2m/sec
- o Number of degrees of freedom (DOF) : 20
- o Actuators used:
 - Robotis RX-28
 - Holding Torque: 28.0kgcm at 12.0 Volt
 - Speed: 0.167Sec / 60 degrees at 12.0 Volt
 - Robotis RX-64
 - Holding Torque: 53.0kgcm at 15.0 Volt
 - Speed: 0.198Sec / 60 degrees at 15.0 Volt
- o Sensors used:
 - Philips SPC900NC
 - Crossbow Accelerometer CXL04LP3
 - Span: +/- 4g
 - Sensitivity: 500 mV/g
 - Silicon Sensing Systems, CRS03-02
 - Rate range: +/- 100deg/sec
- o Processor:
 - Cool Roadrunner LX-800
 - PC/104-Plus CPU Board
 - Speed: 500MHz