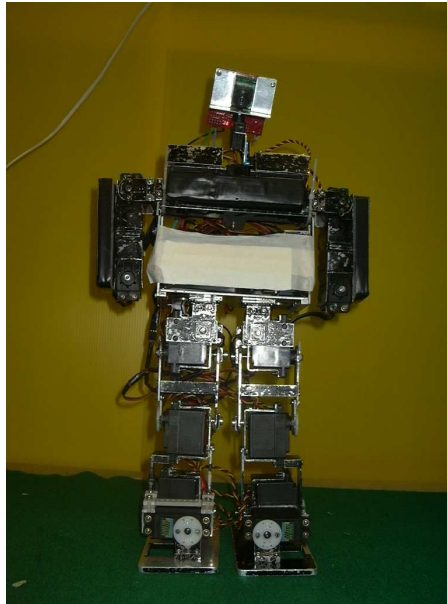


# Technical Questionnaire for RO-PE-IV of Team RO-PE B

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o Image of robot:



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

o Height : 43cm

o Weight : 2.8kg

o Walking/running speed : 2 m/min

2

o Number of degrees of freedom (DOF) : 22

o Actuators used:

Hitec HSR-5995TG  
Torque: 24.0kg\*cm at 6.0 Volt  
Speed: 0.15Sec / 60 at 6.0 Volt

JR Servo DS8511  
Torque: 15.0kg\*cm  
Speed: 0.19Sec / 60

Hitec HS-81MG  
Torque: 3.0kg\*cm at 6.0 Volt  
Speed: 0.09Sec / 60 at 6.0 Volt

Hitec HS-5125MG  
Torque: 3.50kg\*cm at 6.0 Volt  
Speed: 0.13Sec / 60 at 6.0 Volt

o Sensors used:

CMUcam II  
camera resolution: 88\*143  
frame rate: 16.7 frames per second

Devantech Ltd. CMPS03 Digital Compass  
Resolution: 0.1deg  
Accuracy: 3-4deg

Silicon Sensing Systems, CRS03-02  
Rate range: +/- 100deg/sec

o Processor:

Atmega 128  
8-bit RISC  
Speed: 8 MHz