

# Plymouth Humanoids Robot Specification RoboCup 2014

Horatio Garton, Stephen Roberts, Aashish Santana, Clare Simpson, Phil Culverhouse and Guido Bugmann

Centre of Robotics and Neural Systems (CRNS),  
School of Computing and Mathematics,  
Plymouth University, Plymouth, UK

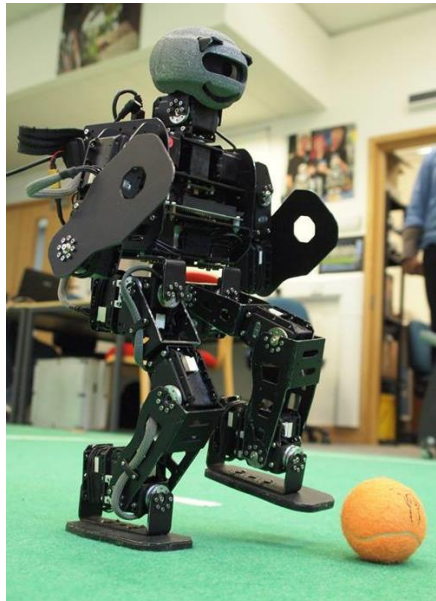


Figure 1 Drake Robot

Specification	
Height	47.2cm
COM Height	24.5cm
Foot	11.5cm x 5.5cm (63.25cm <sup>2</sup> )
Weight	3.2Kg
Maximum width	24cm
Arm span	55.3cm
Leg length	24cm
Head height	11.2cm
Walking Speed	20cms <sup>-1</sup>
DOF	20
Servos	Robotis MX-28
Camera	Logitech C615 (320x432) 74° field of view
IMU	Themis (Plymouth's design) - ADXL345 + CRM100
Embedded Processor	Odroid X2
Servo Controller	Tartarus (Plymouth's design) - ATXMEGA256A3

Figure 2 Dimensions and Specifications