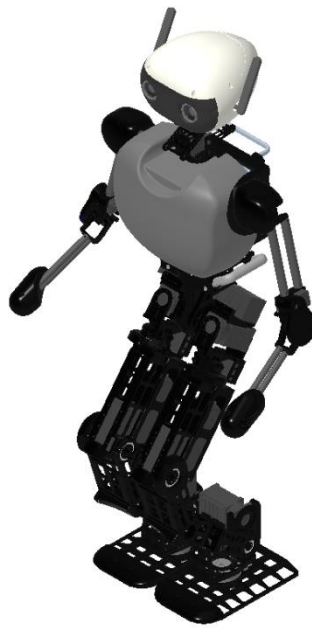




Robot Specification

Team Name: HERoEHS
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Organization: Hanyang University
Nationality: South Korea



Robot Name:	ALICE 3rd version (Artificial Learning Intelligent robot for Culture and Entertainment)
Height of the robot:	137 cm
Weight of the robot:	27.1 kg
Materials:	AL6061, AL5051 for legs and body ABS, TPU 3D printed parts for external cover
Walking speed:	0.4 m/s (Forward and Backward) 0.6 rad/s (Turning to the left and right)
Number of degrees of freedom:	17 [6 per leg, 2 per arm, 2 per head, 1 per waist]
Type of motors:	Robotis Dynamixel PH54-100-S500 PH54-200-S500-R PH42-020-S300 XH-540
Type of sensors used:	ZED 2i Stereo Camera(Not used Magnetometer) Lord 3DM-GX4-25 IMU Sensor 2 RFT82-HA02 F/T Sensor
Computing units:	Intel NUC11TNKI7 Nvidia Jetson AGX Xavier
Number and Type of Buses:	3 TCP/IP, 2 EtherCAT, 2 RS485
Battery:	2 LiPo 6S1P 6.4 Ah 45C
OpenSource Software:	BehaviorTree.CPP 4.4 ¹ / microstrain_mips ² / scilab ³

¹ <https://www.behaviortree.dev/>

² https://github.com/ros-drivers/microstrain_mips

³ <https://www.scilab.org/>