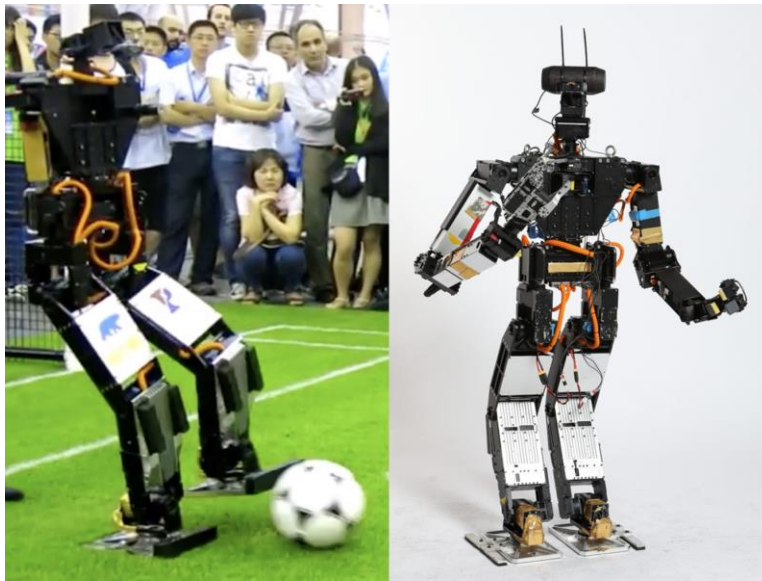


Team RoMeLa Robot Specification

Robot #1 Picture:



Robot #1 Name: THOR-RD (Tactical Hazardous Operations Robot-Rapid Deployment)

Height of the robot: 1.47 m

Weight of the robot: 49 kg

Walking speed in cm/s: 25 cm/s

Number of degrees of freedom and type of motors on each kinematic chain of the robot:

31 Degrees of Freedom

H42-20-S300-R: Head, Arms

H54-100-S500-R: Arms, Legs

H54-200-S500-R: Arms, Legs

Type of sensors used (incl. type of camera(s)):

IMU: MicroStrain 3DM-GX4-45

Vision: Logitech C920 HD Camera

Force/Torque Sensor at Ankle: ATI Mini58

Computing unit(s):

Gigabyte Brix Ultra Compact PC Intel i7-4500U

Other specs:

None

Robot #2 Picture:



CAD rendering shown as it is in its final manufacturing and assembly stage.

Robot #2 Name: ARTEMIS (Advanced Robotic Technology for Enhanced Mobility and Improved Stability)

Height of the robot: 1.5 m

Weight of the robot: 45 kg

Walking speed in cm/s: 50 cm/s

Number of degrees of freedom and type of motors on each kinematic chain of the robot:

19 Degrees of Freedom using Custom In-house Built Proprioceptive Actuators

x3 for Head

x3 per Arm (reduced for tournament purposes)

x5 per Leg

Type of sensors used (incl. type of camera(s)):

IMU: VectorNav VN-100

Vision: Intel RealSense D435 in passive stereo mode

Computing unit(s):

Intel NUC NUC8I7HVK Mini PC

NVIDIA Jetson

Other specs:

None