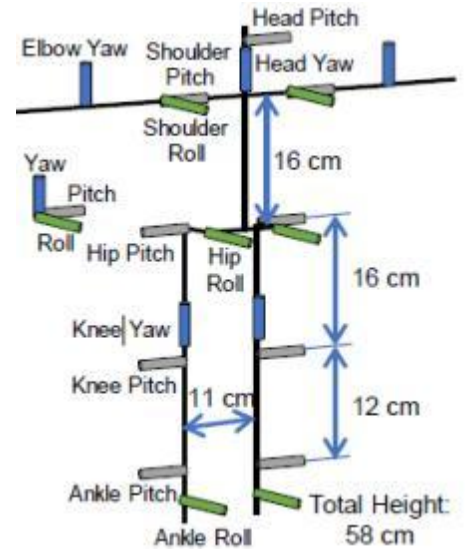


Hardware specification for THMOS

Robot picture:



Hardware specifications

Robot name	THMOS
Height	59.7cm
Weight	5147g
Walking speed	0.3m/s (maximum 0.6 in simulation)
Degrees of freedom:	20
Motors	DYNAMIXEL MX series servos (detailed below)
Camera	Hongshikang Cmosm 2M 1080P 3.6mm 90°
IMU	JY-901, WHEELTEC FDISYSTEMS IMU N200 (magnetometer disabled)
Low level chip	ROBOTIS Dynamixel U2D2
High level computing unit	Nvidia Jetson TX2
Materials	Iron
Batteries	16.7 V Li-ion battery

Part	DoF	Type	Stall Torque (N·m)	No Load Speed (rev/min)
Head	Head Pitch	MX28	2.5	55
	Head Yaw	MX28	2.5	55
	Shoulder Pitch	MX28	2.5	55
Arm	Shoulder Roll	MX28	2.5	55
	Elbow Yaw	MX28	2.5	55
	Hip Roll	MX106	8.4	45
Leg	Hip Pitch	MX64	6.0	63
	Knee Yaw	MX64	6.0	63
	Knee Pitch	MX64	6.0	63
	Ankle Pitch	MX64	6.0	63
	Ankle Roll	MX106	8.4	45