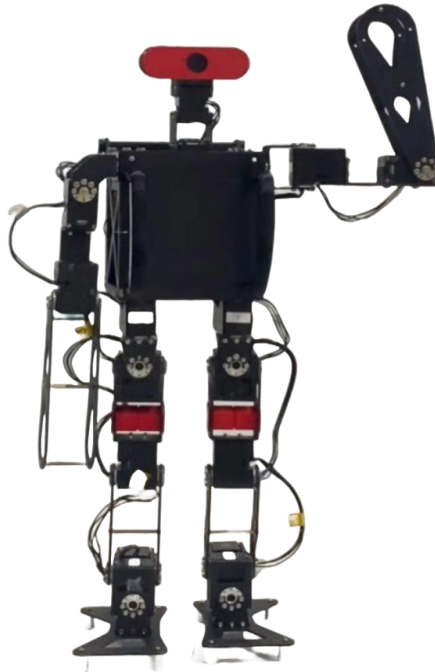


RoboFEI 2025- Robot Specification

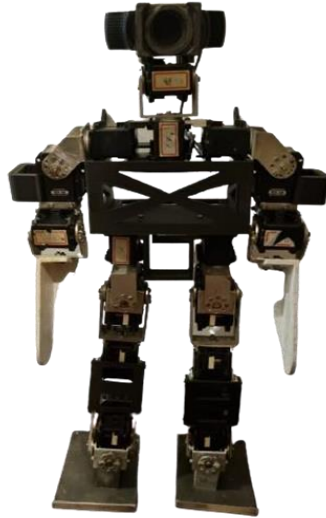
Atom



Name	Atom	
Height	720mm	
Weight	6,2Kg	
Walking Speed	28cm/s	
Degrees Of Freedom	Neck	2 DOF
	Arm	6 DOF (3 per arm)
	Leg	12 DOF (6 per leg)
Servo Motors (Dynamixel)	Neck	1 XM-430 / 1 XM-540
	Arm	6 XM-540 (3 per arm)
	Leg	12 XM-540 (6 per leg)
Sensors	WebCam Logitech C920	
	UM7 Orientation Sensor RSX UM7	
Computing Unit	Intel NUC i7-5500U, 12GB DDR3 SDRAM, 120GB SSD	
System	Linux Ubuntu 20.04	
Battery	LiPo 4s 5200mAh 50C TP5200-4SE55	
Materials	5000 aluminum alloy: arms, legs, hands, chest and foot PLA: head, box with eletronic in the chest and soccer shoes FLEX: Shock absorbers Carbon Fiber: chest cover.	

RoboFEI 2025- Robot Specification

Darwin



Name	Newton/Darwin	
Height	520mm	
Weight	4.5 Kg	
Walking Speed	28cm/s	
Degrees Of Freedom	Neck	2 DOF
	Arm	6 DOF (3 per arm)
	Leg	12 DOF (6 per leg)
Servo Motors (Dynamixel)	Neck	1 RX-28
	Arm	6 RX-28 (3 per arm)
	Leg	12 RX-28 (6 per leg)
Sensors	WebCam Logitech C920	
	MPU-6050 that it does not have a magnetometer	
Computing Unit	Intel NUC i3, 12GB DDR3 SDRAM, 120GB SSD	
System	Linux Ubuntu 20.04	
Battery	LiPo 4s	
Materials	5000 aluminum alloy: foot, neck and joints PLA: head, box with eletronic in the chest, arms and hands FLEX: Shock absorbers Carbon Fiber: chest	