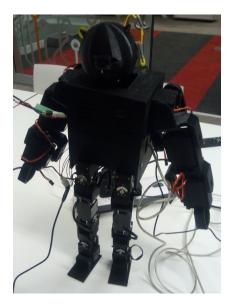
## Electric Sheep - Robot Specification



We have four players (a full team) of the following specification:

Property	Value
Name:	Black Sheep
Height:	$63.5 \mathrm{~cm}$
Weight:	$4 \mathrm{~kg}$
Walking Speed:	$\sim$ 12 cm/s
DoF:	Total of 20 degrees of freedom:
	1x Head - 2 DoF
	2x Arm - 3 DoF
	2x Leg - 6 DoF
Sensors:	Camera: 640x480 pixels, 30 FPS, YUVY 422 pixel format, USB 2.0
	IMU: 6 DOF MPU-6050 3 axis gyro with accelerometer
Computing:	Main board: Raspberry Pi 3 B+
Other:	Neck motors: $MG995R$ (5 kg/cm)
	Arm motor: Feetech FS6535M (30 kg/cm)
	Leg motors: Feetech SM30 (30 kg/cm)
	Smart controller: URT-1 SMS & SCS motor board
	PWM controller: PCA9685 16 channel 12-bit I2C controller
	Battery: 4 cell, 16.8V, 2200 mAh LiPo