UT Austin Villa 2026 Large Robot Division Team Specification

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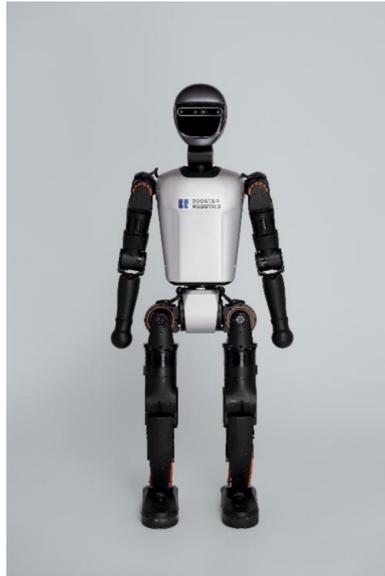
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Fig. 1. Booster T1

– Robot name: Booster T1

– Height of the robot: 1180 mm

– Weight of the robot: 30 kg

– Walking Speed: 0.8 m/s

– Number of degrees of freedom: 23

– Type of motors: Booster Robotics Integrated Joints with Max Torque 7 Nm, 36 Nm, 60 Nm, 90 Nm, 130 Nm.

– Sensors: Camera, RealSense D455 with IR disabled; Gyro, 9-Axis IMU SurPass A500 (magnetometer disabled)

– Control unit: Intel i7 1370P

– Perception and Decision Unit: NVIDIA AGX Orin 32GB

– Materials: 7075 Aluminum Alloy and Engineering Plastics

– Battery: 13S3P 10.5Ah Ternary lithium battery