

UT Austin Villa 2025 AdultSize Team Specification

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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