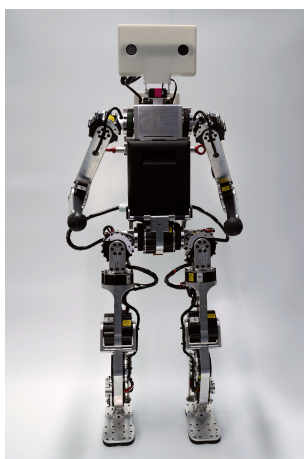


# Tsinghua Hephaestus 2024 AdultSize Team Specification

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**Fig. 1.** Booster Alpha

- **Robot name:** Booster Alpha
- **Height of the robot:** 1015 mm
- **Weight of the robot:** 20.1 kg
- **Walking Speed:** 0.5 m/s
- **Number of degrees of freedom:** 21
- **Type of motors:** Xiaomi CyberGear, Hiwonder LX-224HV
- **Sensors:** Camera, ZED 2i; Gyro, 6-Axis ORIENTUS
- **Control unit:** NUC i7-1260P
- **Perception and Decision Unit:** NVIDIA Xavier Nx
- **Materials:** 7075 Aluminum Alloy

– **Battery:** 6S1P 16000mAh LiHV