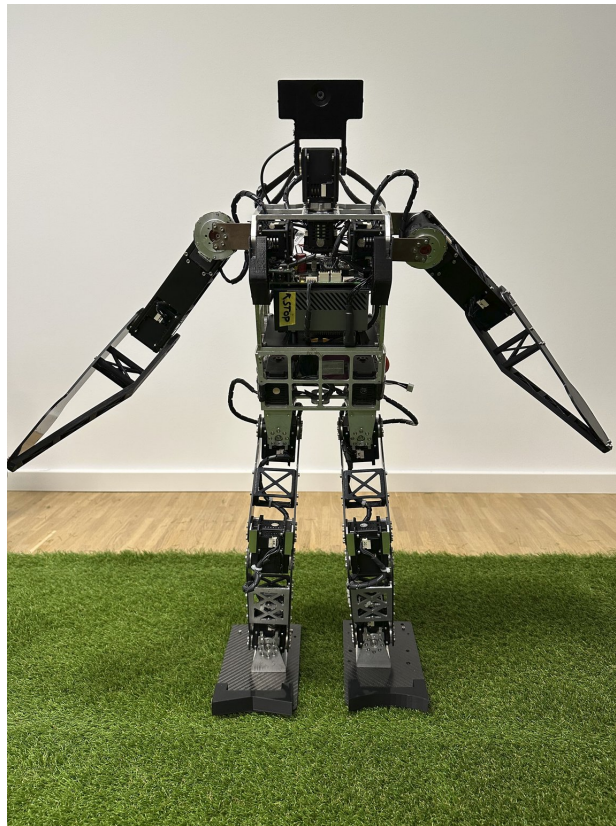


Robot Specification KidSize 2025

WF Wolves



- **Name:** Hans, Detlef, Gambi, Jutta & Sara
- **Height:** 86 cm
- **Weight:** 6.4 kg
- **Walking speed:** 23 cm/s
- **Number of degrees of freedom:** 20
 - o 6 per leg (x2), Dynamixel MX-106 & Dynamixel XH-540-W150/W270
 - o 3 per arm (x2), Dynamixel MX-64
 - o 2 in the head, Dynamixel MX-64
- **Motors:** Dynamixel MX64 (x8) and MX106 (x12)
- **Sensors:**
 - o BNO-055 or MPU6050 IMU: 3-axis accelerometer, 3-axis gyroscope, magnetometer disabled
 - o Camera: Logitech C920 HD Pro Webcam
- **Computing units:**
 - o NVIDIA Jetson Orin
- **Battery:** TF ECO-X 5000-4S MTAG (4S 5000 mAh, LiPo)
- **Electronics:**
 - o Custom Powerboard
 - o DXL-Board with FTDI4232H (USB to RS485)
- **Materials:**
 - o Carbon: legs and foot plates
 - o Aluminum: Torso and small connectors
 - o 3D-Print: Head, bumper, torso base plate, arms and small parts