

# Starkit Team – Robot Specification

## Humanoid Kid-Size League, Robocup 2019 Sydney

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### 1 Starkit (2019)



- **Robot name:** Starkit
- **Platform:** Sigmaban+ by Rhoban Football Club
- **Height:** 64 cm
- **Weight:** 5.5 kg
- **Walking speed:** 35 cm/s
- **Motors:** 20 DOF
  - Neck: Dynamixel MX-64 (2 motors)
  - Upper Body: Dynamixel MX-64 (3 per arm)
  - Lower Body: Dynamixel MX-106 (6 per arm)
- **Sensors:**
  - Camera: Point Grey Blackfly GigE
  - IMU: 9 Degrees of Freedom - Razor
  - Foot Pressure: 4 Strain Gauge Sensors per foot
- **Computing units:**
  - Low-level: ARM7 (stm32) 72MHz (Maple mini)
  - High-level: Fitlet
    - AMD 1.2 GHz Micro-6700T
    - 2GB SDRAM
    - SSD 128Gb
- **Operating System:** Linux (Debian 7)