1 Robot Specification

Figure.1 is our **prototype** robot design. **This robot is not completed yet.** We **plan to upgrade** the hardware lighter and more robust. You can find more detail from the spec. table 1 at the next page.

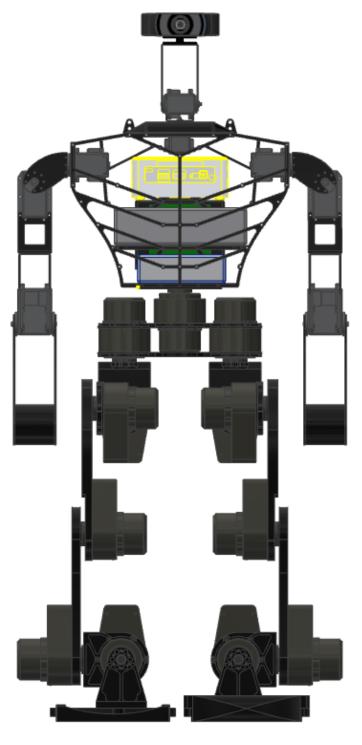


Figure.1 Unfinished Robot

| NAME | RO:BIT | |
|------------------------------|--|---|
| SIZE | Weight Height | 12.0 kg 860.0 mm |
| Number of degrees of freedom | All of DOF HEAD LEG ARM | 21 DOF 2 DOF 12 DOF 6 DOF |
| Actuators | ROBOTIS Dynamixel (MX-28, MX-64, and MX- 106) ALM DRIVE | |
| Type of motors, Speed | MX-106 MX-64 MX-28 ALM DRIV | 45 RPM 63 RPM 55 RPM VE 26 RPM |
| Computing units | NUC7i7BNH, Intel i7-7567U Dual Core 3.5GHz, 4GB DDR4 RAM and 120GB of SSD ARM Cortex M4 STM32F446RE MCU 180MHz | |
| Camera | C920R Logitech | |
| Sensors | MW-AHRSv1 | |
| Walking speed | 25 cm/s | |
| Battery | Li-Po 4Cell 2200mAh and Li-Po 8Cell 8000mAh | |
| OS/Development Platform | Linux Ubuntu 16.04/C,C++/ROS | |

Table 1 Specification of the Robot