

NUBOTS

ROBOT SPECIFICATION

PHYSICAL SPECIFICATIONS

| | |
|----------------------|---------------------------------------|
| Height (cm) | 90 |
| Dry Weight (kg) | 7.45 |
| Wet Weight (kg) | 7.65 |
| Walking Speed (cm/s) | 20 |
| Battery | 14.8v 4200mAh LiPo |
| Printed Material | Onyx (Carbon Fibre / Nylon Composite) |
| Machined Material | 6063 Aluminium Alloy |

DEGREES OF FREEDOM

| | |
|--------------|-----------|
| Legs (each) | 6 |
| Arms (each) | 3 |
| Neck | 2 |
| Total | 20 |

MOTORS AND SENSORS

| | |
|---|-----|
| Dynamixel MX-106R Servo (<i>current</i>) | x12 |
| Dynamixel XH540-W270-R Servo (<i>alt</i>) | x12 |
| Dynamixel MX-64AR Servo | x8 |
| FLIR BlackFlyS BFS-U3-13Y3C-C | x2 |
| 3-axis Gyroscope L3G4200D | x1 |
| 3-axis Accelerometer LIS331DLH | x1 |

COMPUTING UNITS

| | |
|--|--------|
| Intel NUC7i7BNH (Core i7-7567U) (<i>current</i>) | 3.5GHz |
| Intel NUC11TNH (Core i7-1185G7) (<i>alt</i>) | 4.8GHz |
| Robotis CM-740 (<i>current</i>) | 72MHz |
| Robotis OpenCR1.0 (<i>alt</i>) | 216MHz |
| NUbots NUsense (<i>alt</i>) | TBA |

THE UNIVERSITY OF NEWCASTLE
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NUGUS Robot.