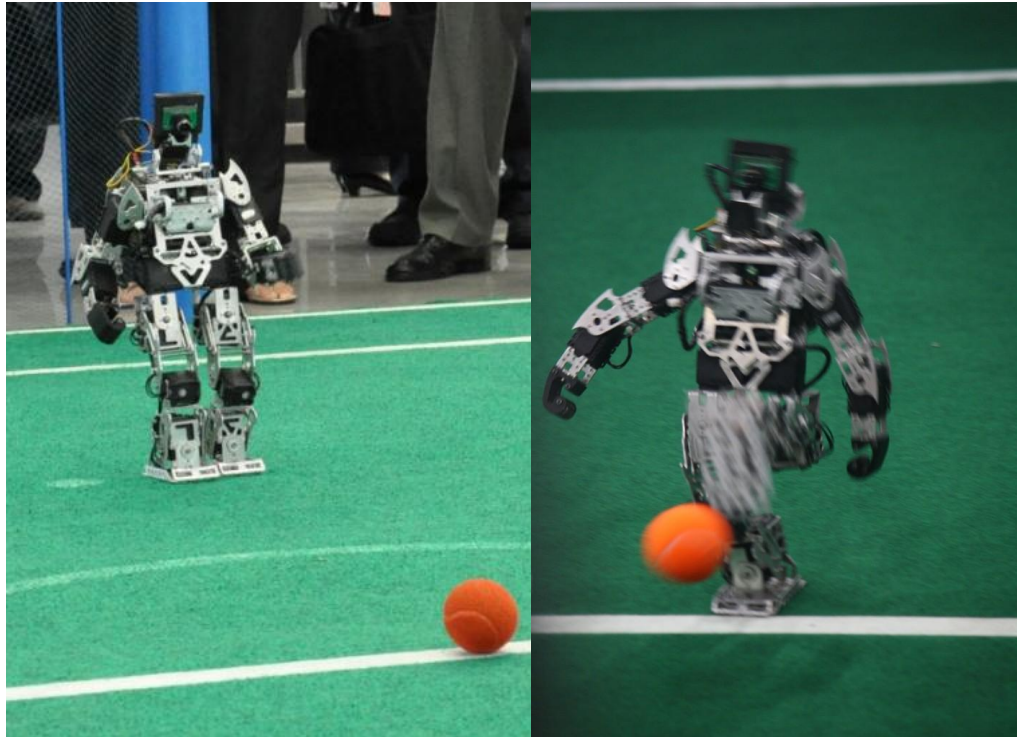


## EROS Team Robot Spesification

**Robot name :** E1205 (*First Generation*)

**Robot picture :**

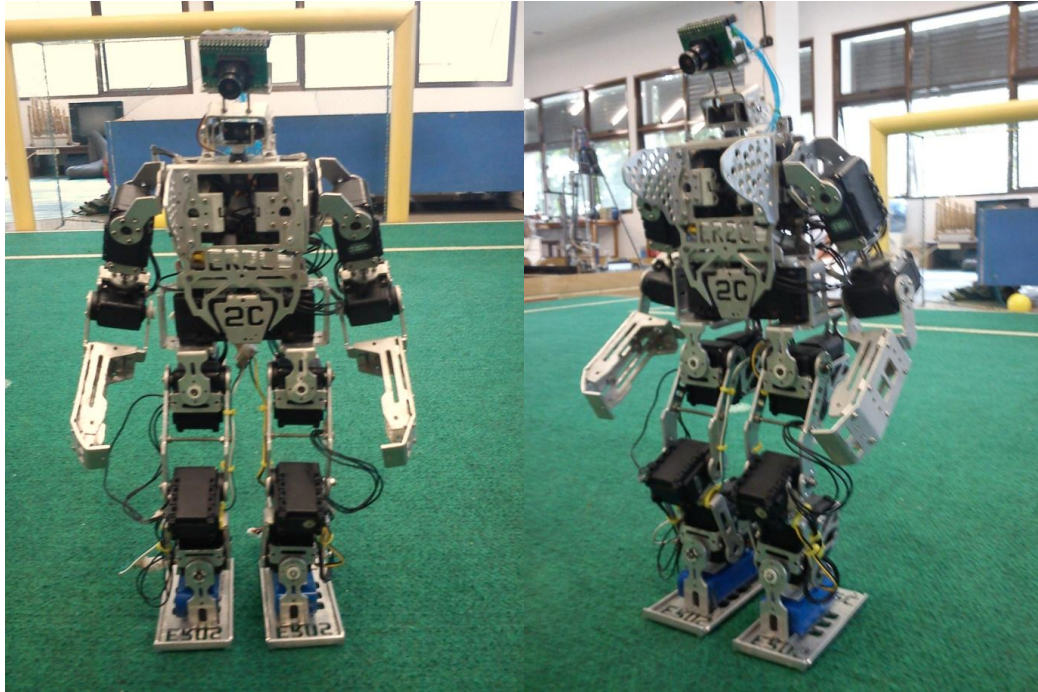


**Robot Spesification :**

|           |                 |                          |
|-----------|-----------------|--------------------------|
| CPU       | Main Controller | ARM7 LPC2106 @25MHz      |
|           | Sub Controller  | AVR ATmega256 @16MHz     |
| Actuator  | Head            | 2 x Hitec Servo HS-85 MG |
|           | Arm             | 2 x 3 Dynamixel AX-12+   |
|           | Leg             | 2 x 6 Dynamixel AX-12+   |
| Sensor    | Gyroscope       | GS-12                    |
|           | Accelerometer   | MMA7260                  |
|           | Compass         | CMPS03                   |
|           | Camera          | CMUCam3                  |
| Power     | Controller      | LiPo 2 Cell 850 mAh      |
|           | Actuator        | LiPo 3 Cell 1300 mAh     |
| Dimension | Height          | 435 mm                   |
|           | Foot            | 55 mm x 117 mm           |
|           | Leg             | 226 mm                   |
|           | Arm             | 168 mm                   |
|           | Weight          | 2350 gram                |
| DOF       | Head            | 2 DOF                    |
|           | Arm             | 2 x 3 DOF                |
|           | Leg             | 2 x 6 DOF                |
| Motion    | Walking Speed   | 24 cm/second             |

**Robot name :** EROS I (*Second Generation*)

**Robot picture :**

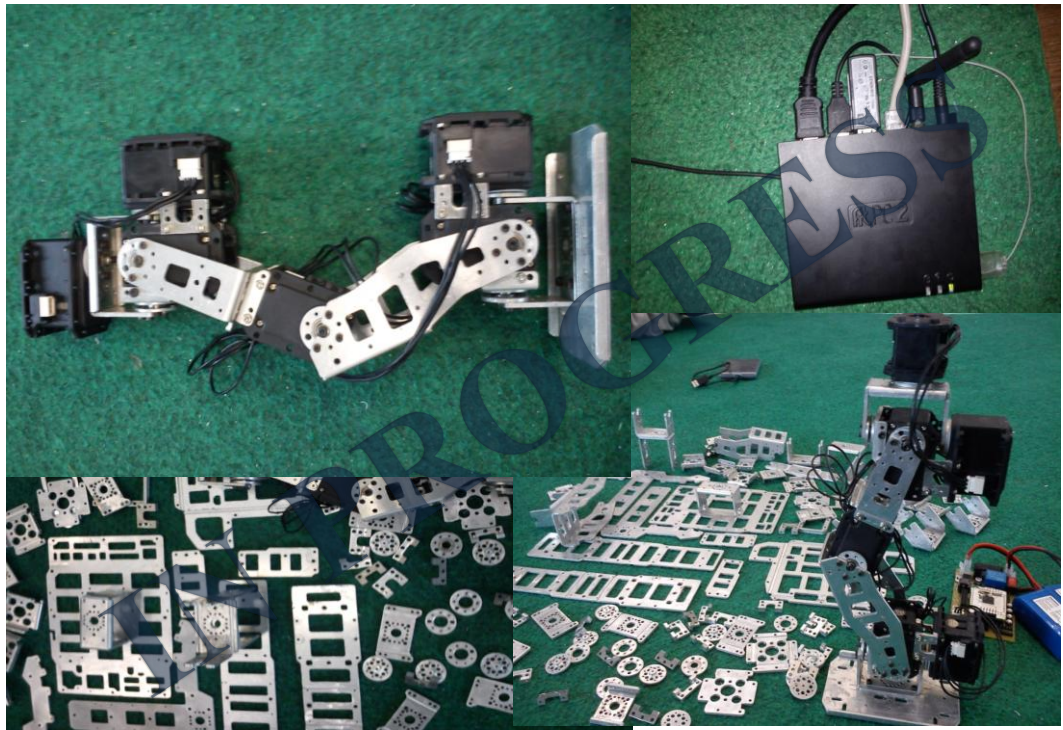


**Robot Specification :**

|           |                 |   |
|-----------|-----------------|---|
| CPU       | Main Controller | RabbitCore RCM4000 @58,98 MHz<br>WiFi 802.11b standard, ISM 2.4 GHz |
|           | Sub Controller  | ARM Cortex STM32F103R8 @72 MHz                                      |
| Actuator  | Head            | 2 x Hitec Servo HS-65 MG  |
|           | Arm             | 2 x 3 Dynamixel AX-12A  |
|           | Leg             | 2 x 6 Dynamixel AX-18A  |
| Sensor    | Gyroscope       | GS-12   |
|           | Accelerometer   | MMA7260   |
|           | Compass         | CMPS10  |
|           | Camera          | CMUCam3   |
| Power     | Controller      | LiPo 2 Cell 1000 mAh  |
|           | Actuator        | 2 x LiPo 3 Cell 1300 mAh  |
| Dimension | Height          | 460 mm  |
|           | Foot            | 55 mm x 120 mm  |
|           | Leg             | 236 mm  |
|           | Arm             | 180 mm  |
|           | Weight          | 2450 gram   |
| DOF       | Head            | 2 DOF   |
|           | Arm             | 2 x 3 DOF   |
|           | Leg             | 2 x 6 DOF   |
| Motion    | Walking Speed   | 25 cm/second  |

**Robot name :** EROS II (*Next Generation*)

**Robot picture :**



**Robot Specification :**

|           |                 |                                     |
|-----------|-----------------|-------------------------------------|
| CPU       | Main Controller | Fit PC2 Intel Atom Z530 CPU @1,6GHz |
|           | Sub Controller  | ARM Cortex STM32F103R8 @72MHz       |
| Actuator  | Head            | 2 x Dynamixel MX-28                 |
|           | Arm             | 2 x 3 Dynamixel MX-28               |
|           | Leg             | 2 x 6 Dynamixel MX-28               |
| Sensor    | Gyroscope       | MLX90609                            |
|           | Accelerometer   | ADXL330                             |
|           | Compass         | CMPS10                              |
|           | Camera          | Logitech 10MP HD Pro Webcam C910    |
| Power     | Controller      | LiPo 2 Cell 1000 mAh                |
|           | Actuator        | 2 x LiPo 3 Cell 1300 mAh            |
| Dimension | Height          | 455 mm                              |
|           | Foot            | 60 mm x 105 mm                      |
|           | Leg             | 250 mm                              |
|           | Arm             | 215 mm                              |
|           | Weight          | 2900 grams                          |
| DOF       | Head            | 2 DOF                               |
|           | Arm             | 2 x 3 DOF                           |
|           | Leg             | 2 x 6 DOF                           |
| Motion    | Walking Speed   | 30 cm/second                        |