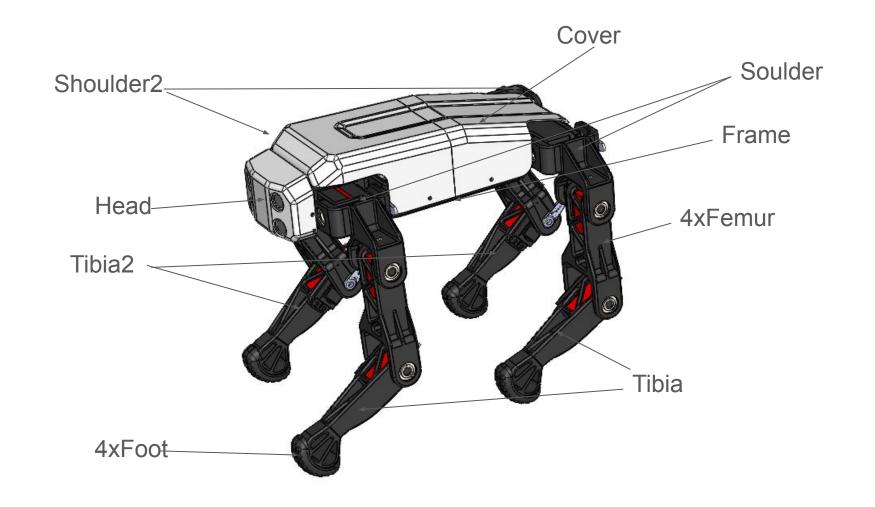
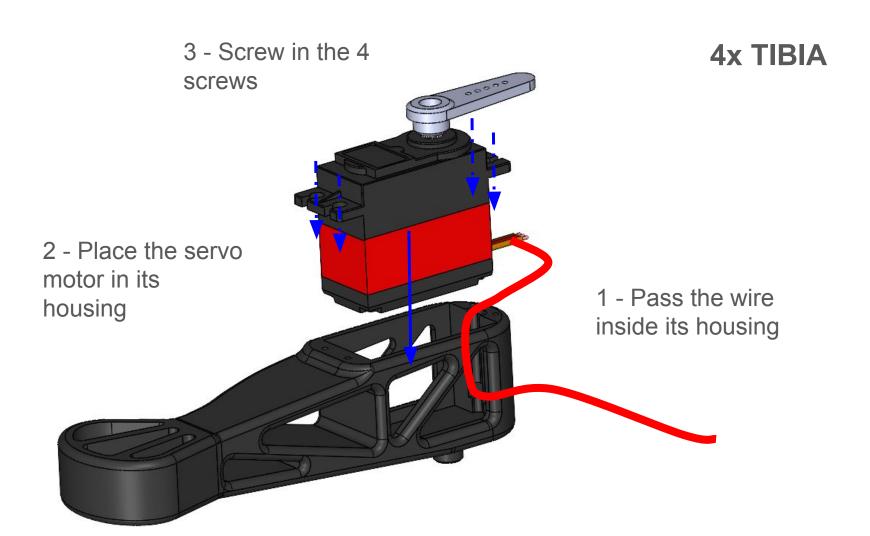


# Assembly instruction

ROKI quadruped ROBOT





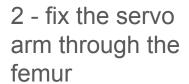


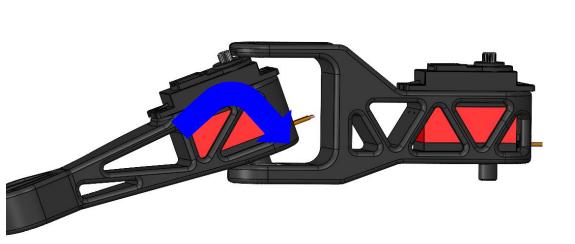
## 4x FEMUR

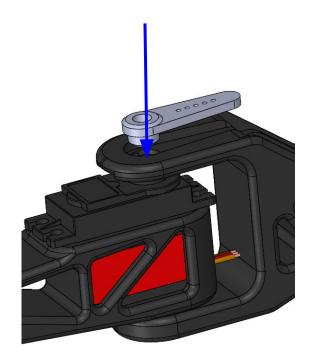


## 4x FEMUR

1- place the TIBIA in the ball bearing of the FEMUR as photo bellow





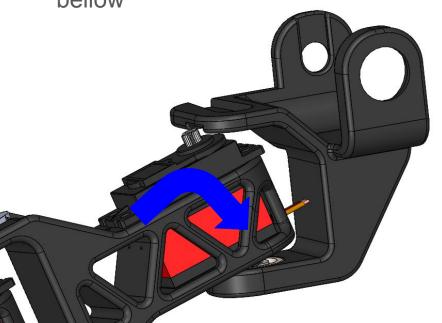


#### 4x shoulder

2 - fix the servo arm through the shoulder

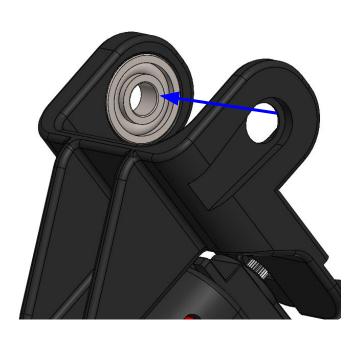


1- place the FEMUR in the ball bearing of the shoulder as photo bellow



#### 4x shoulder

3- Place the ball bearing inside its housing

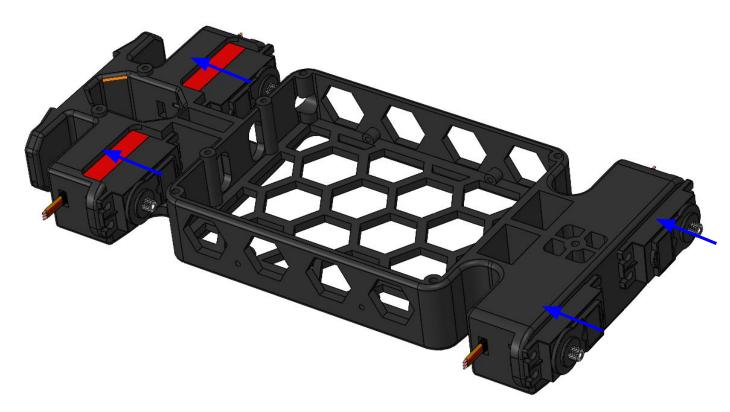


#### 4x foot

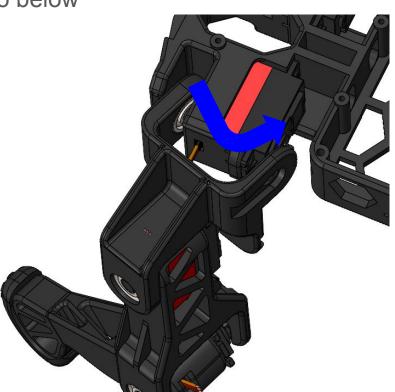
2- Glue the foot pad, they must be printed in flex filament or flex resin

1- Place all servo motor inside their housings and screw them

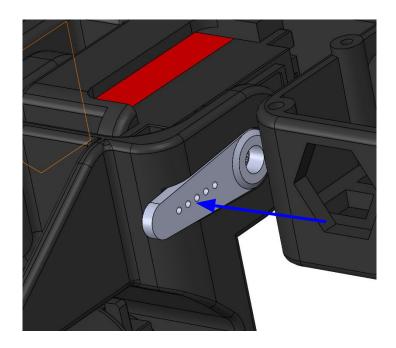
# **Frame**



1- Mounts the 4 legs on the fram as photo below

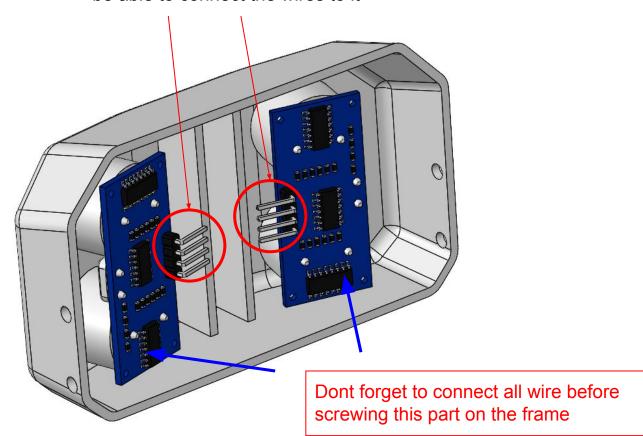


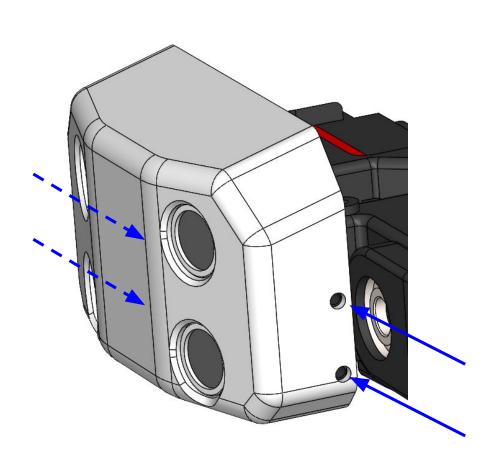
2- fix all motors with servo arms



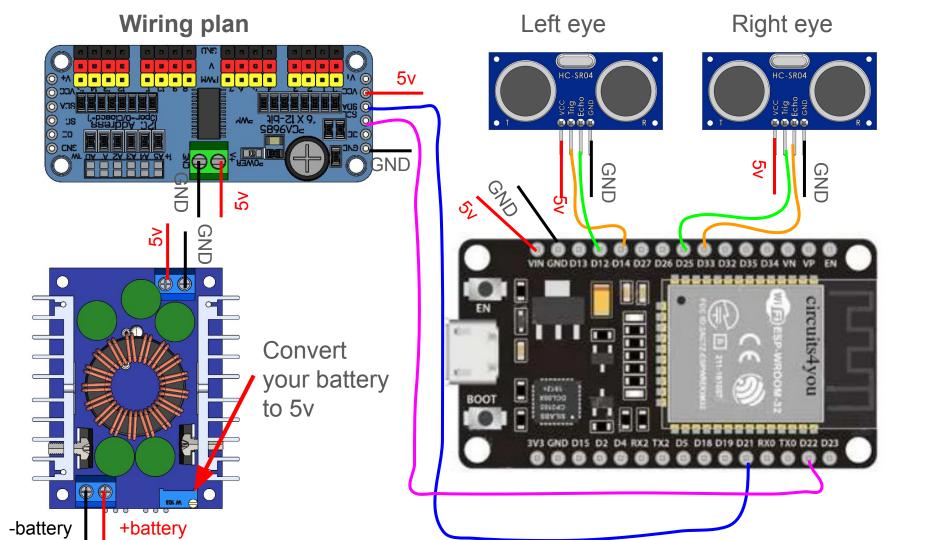
slightly bend the tabs of the card to be able to connect the wires to it

1- place the ultrassonics sensors inside head



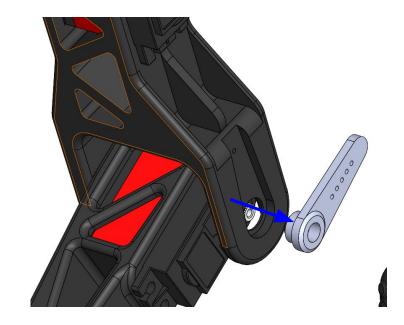


1-Use screw Ø3x8 to screwing the head on the frame



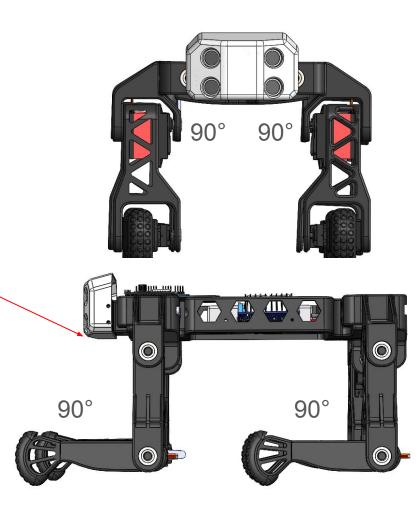
# First start

1 - On first startup you should initialize all 12 servos. You must first remove all the servo arms from each motor so as to leave each motor free to rotate.



## First start

- 2- Then upload the "initialization.ino" code to the esp32
- 3- Start the robot, all motors should initialize automatically at position= Shoulder: 90° / Femur: 90° / Tibia: 90° / Tibia2: 90°
- 4- then put the robot in position as shown in the picture then reattach the servo arms. Your robot is initialized



- 5- Now you can upload "Main ROKI.ino in your ESP32.
- 6- Start the robot, connect your PC or smartphone to the wifi "ROKI001", type password "ROKI123456".
- const char\* ssid = "ROKI001"; // Nom du réseau const char\* password = "ROKI123456"; // Mot de passe du réseau

IP Address: 192.168.4.1

- 7- to know the IP adress of ESP32, connect it to your computer and open the serial monitor, at starting the ESP32, the IP adress will appear
- 8- Type this adress in your web browser

left 0right 0