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# Aim

This document shows what to add to robotic arm to make it controllable with T-Skin.

# Material

We used this Robotic Arm, Arduino, Shields and BLE Module:

1. <https://www.futurashop.it/braccio-robotico-in-plexiglass-7100-roboarm?search=7100-ROBOARM>
2. <https://www.futurashop.it/shield-arduino-controllo-servo-7100-FT1397M?search=7100-FT1397M>
3. <https://www.futurashop.it/arduino-uno-rev3-con-atmega328-7300-arduinounorev3?search=7300-ARDUINOUNOREV3>
4. <https://www.futurashop.it/modulo-bluetooth-cc2541-form-XBEE-7100-FT1338M?search=7100-FT1338M>
5. <https://www.futurashop.it/shield-base-per-bluetooth-7100-FT1335K?search=7100-FT1335K>

*We used also this BLE Module, but you can’t place on the BLE Shield, so you need to wire externally:*

1. <https://www.adafruit.com/product/2479>

We also found that placing this module on top, or far from pwm/servos line, also helps in increasing radio range and connection stability. The downside of the 4. and 5. is that you have to place it underneath servo shield, and it acts as a faraday cage so you loose lot of radio signal.

# Source code availability

Source code (Arduino and T-Skin) are available here:

<https://github.com/TheTactigon/T-Skin-Robotic-Arm>