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# Aim

Purpose of this document is to show steps to follow and the material used to make the 7100-RoboArm get controlled through T-Skin.

# Material List

As it follows, links to Robot 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>

Placing this module on top, or far from pwm/servos line, also helps in increasing radio range and connection stability.

Downside of material in points 4. and 5. is that you have to place it underneath servo shield, which 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>