Project Requirements:

Hardware Requirements:

1. Pair of Hand Gloves
2. Arduino Nano Microcontroller (Atmega 328k)
3. RF 433Mhz Transmitter and Receiver
4. HC 05 Bluetooth Module
5. Flex Sensors
6. Wires and Cables
7. Batteries (9v 1200 mAh)
8. HDD Space: 50 GB or more
9. RAM: 4GB or more
10. Processor: Intel Core i3 (3rd Gen.) or more
11. Android Device (v4.0 or more)

Software Requirements:

1. Arduino IDE (v1.4 or more)
2. Android Studio IDE (2.2.1 or more)
3. Android SDK (v16 or more)

OS Requirements:

1. Microsoft Windows OS XP/7/8/8.1/10

Functional Diagram:

RF Receiver

Left Hand Glove

Flex Sensors

Right Hand Glove

Flex Sensors

Android Smartphone

HC06 Bluetooth Tansceiver

Arduino Nano

Data Combining and Thresholding

RF Transceiver

Arduino Nano