1. Prepare

A. Download The Arduino IDE

Git: https://github.com/HippoDevices/arduino-1.5.5-windows

Zip: https://github.com/HippoDevices/arduino-1.5.5-windows/archive/master.zip

B. Download The HippoDevices Files

GIT: https://github.com/HippoDevices/HippoADK.git

Zip: https://github.com/HippoDevices/HippoADK/archive/master.zip

2. Firmware programme

Open BalanceRobotADK.ino:

HippoADK\Firmware\APP Inventor Firmata USB

Selected Hippo Board&com port;

Build&Download;

3. APP Inventor 2

A. Log in the APP Inventor web site: http://107.170.181.71:8888/

B. Demo APP is in account test@example.com.

C. Select LED Control

D. Build APP(save .apk to my computer)

E. Install APP

4. Hardware

Connect Hippo-ADK to Android through USB cable.

Open LEDControl APP,then you can control the Green LED on your android phone.

5. More Demo

A. Blink

Use the Timer on android to control LED Blink.

B. RGBLED

Use the Slider control RGB LED.

C. KalmanFilter

Display the angle by SixAxisSensor.SixAxisSensor is mix Accelerometer and Gyroscope data by KalmanFilter.

D. More Demo is coming;