In this project we used the Thermal Imaging Sensor, which was made by RH – Workshop at http://www.rhworkshop.com/. We also used the open source android application FIRSensor that you can download the source code from https://github.com/RHWorkshop. We also modify the source code on <http://arduino.cc/en/Tutorial/ping> and http://arduinobasics.blogspot.com/2012/11/arduinobasics-hc-sr04-ultrasonic-sensor.html to make the circuit play a certain sound on the buzzer whenever it detects an obstacle or staircase.