Hardware Components:

* 1sheelds
* Mobile phone (Android O/S 4.0 and above)
* Coffee machine
* Arduino UNO R3
* Power tail II (Input Switch 3-15 v dc)

Software Components:

* Android source code
* PHP source code
* Arduino source code

Features:

1. 1Sheeld: According to [1], is a device that extends the functionality of the Arduino microcontroller by connecting to a mobile application to use the functionalities of the mobile phone such as the WI-FI, GPS, GSM, LCD screen and all other features of the phone. This device helps reduce the reliability on adding external shields to the arduino, by simply extending the phone features to the device.
2. Mobile phone (Android O/S 4.0 and above):

Mode of Operation:

References:

1. http://www.seeedstudio.com/depot/1Sheeld-Replace-your-Arduino-shields-with-smartphone-p-1870.html