

Available Material

AMBIENT INTELLIGENCE

List of the material available at the LADISPE lab



POLITECNICO
DI TORINO



On the Development Bench...

- 2 Raspberry Pis
 - Accessible through ssh or HTTP
 - shared components
 - Pi-1 hosts a RazBerry module (for Z-Wave)
 - Pi-2 is customizable on request
- 1 Philips Hue bridge
 - shared component



On the Development Bench...

- Raspberry Pi with the Z-Wave controller
 - IP Address: 192.168.0.202
 - web interface: <http://192.168.0.202:8083>
- Philips Hue bridge
 - IP Address: 192.168.0.201



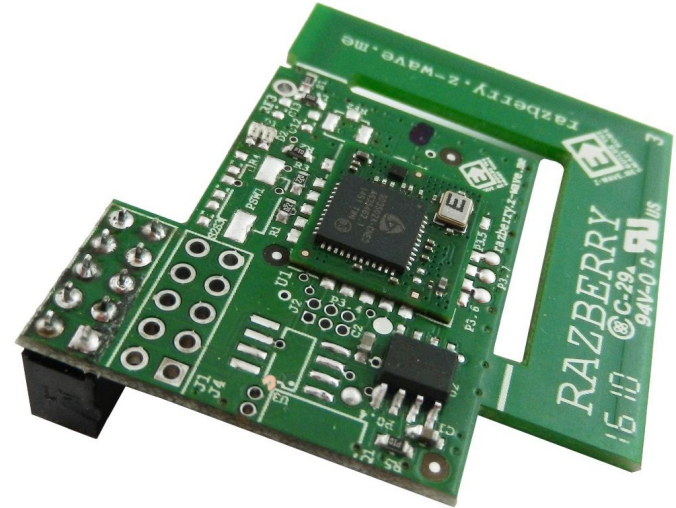
Philips Hue

- 6+ Hue bulbs
- 1 Friends of Hue LED strip
- Software emulator:
 - <https://steveyo.github.io/Hue-Emulator/>



Z-Wave Devices

- 3+ RaZberry
 - Z-Wave controller
 - to create and manage a Z-Wave network
 - 1 is on the Development Bench (fixed)
 - for Raspberry Pis
 - <https://z-wave.me/products/razberry/>



Z-Wave Devices

- Metering Plugs
 - On/Off
 - some of them are "dimmable"
- Multisensors 4-in-1
 1. Light
 2. Humidity
 3. Temperature
 4. Motion



Z-Wave Devices

- 1 Door/Window Sensor
- 2 Multisensors 6-in-1
 1. Light
 2. Humidity
 3. Temperature
 4. Motion
 5. Vibration
 6. UV



MyHome

- Demo wall with various components
 - sponsored by BTicino
 - in the second room of LADISPE
 - fixed



Fitness Trackers

- 1 Jawbone Up3
 - with heart rate measurement
 - <https://jawbone.com/fitness-tracker/up3>
- 1 Fitbit Flex
 - <https://www.fitbit.com/flex>
- 2 Fitbit Charge
 - with heart rate measurement
 - <https://www.fitbit.com/charge>



Raspberry Pi & Co.

- 10+ Raspberry Pis (with SD cards, cases, ...)
- RaZberry modules (Z-Wave controller)
- ZigBee devices (metering plugs, ...)
- Arduino boards
 - 10+ Arduino Yun
 - other versions available
- EnOcean devices (temperature sensor, rocker-switch)

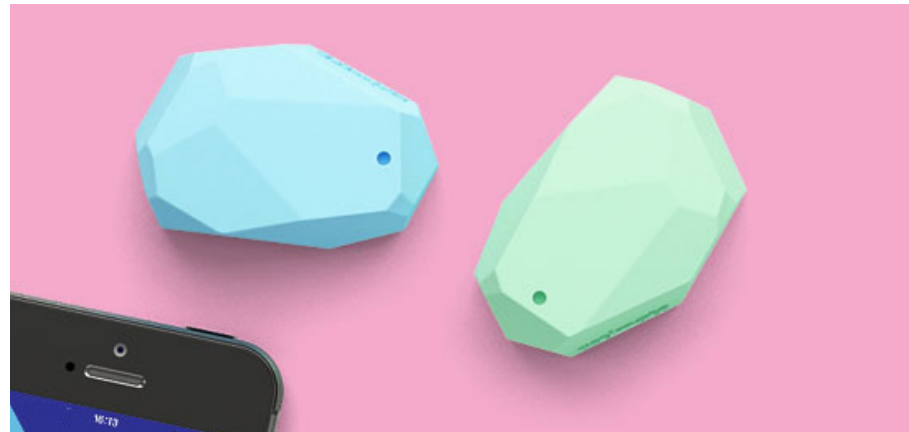
Smartwatches

- 2 Huawei Watch 2 Sport
 - with WearOS (by Google)



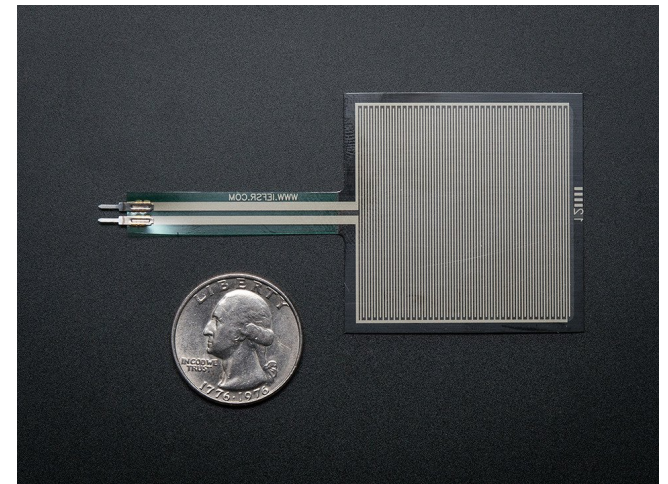
Bluetooth Beacons

- 9 Estimote beacons
- 10 Stiker beacons
- <https://estimote.com>



Raspberry Pi & Co.

- Proximity sensors (ultrasound) for Raspberry Pi/Arduino
- Force-sensitive Sensor
- Load cells
- Spare hardware
 - Breadboards
 - LEDs
 - Resistors
 - ...



USB Devices and Add-ons

- USB-Bluetooth adapters
- USB-WiFi adapters
- LCD Touchscreens 2.8"
- USB Microphones (for Raspberry Pi)
- USB Webcams
- USB Powerbanks
- Active speakers
 - "traditional" (cable)
 - 2 Bluetooth

RFID/NFC Tags

- RFID/NFC Keyfobs
- RFID/NFC Stickers
- RFID/NFC Cards
- RFID/NFC Bracelets

Other Devices

- 1 Mini Thermal printer
- 2 Arduino Braccio






Other Devices

- 1 Logitech G920 Driving Force kit
 - Wheel
 - Shifter



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