

The CBD/Walker St Sensor Network Trials

⇒ Objective:

* Location: TSV city Council TM Club on Walker St

- Need a quote of how much this going to cost
- Parts List
- Need to start radio testing
- How long will this take to put together?

* Start: 2 months ago

* End: during holidays

⇒ What are the results you are looking for?

- Air temp → using RTC
 - Wall temp → using IR: IBB20
 - Humidity
 - Light
 - Sound (pressure dB)
- } accuracy sub 0.5 degree

⇒ What is the requirements/ testing strategy

⇒ Constraints

- Power Consumption
 - ↳ 4min shutdown for Xbee devices

⇒ Current Components / Parts

- Dev Board → Arduino Stalker V2.3
- Xbee
- Battery → LiPo
- Solar Panel → $\frac{1}{2}$ Watt for sun
→ 3 Watt for shade

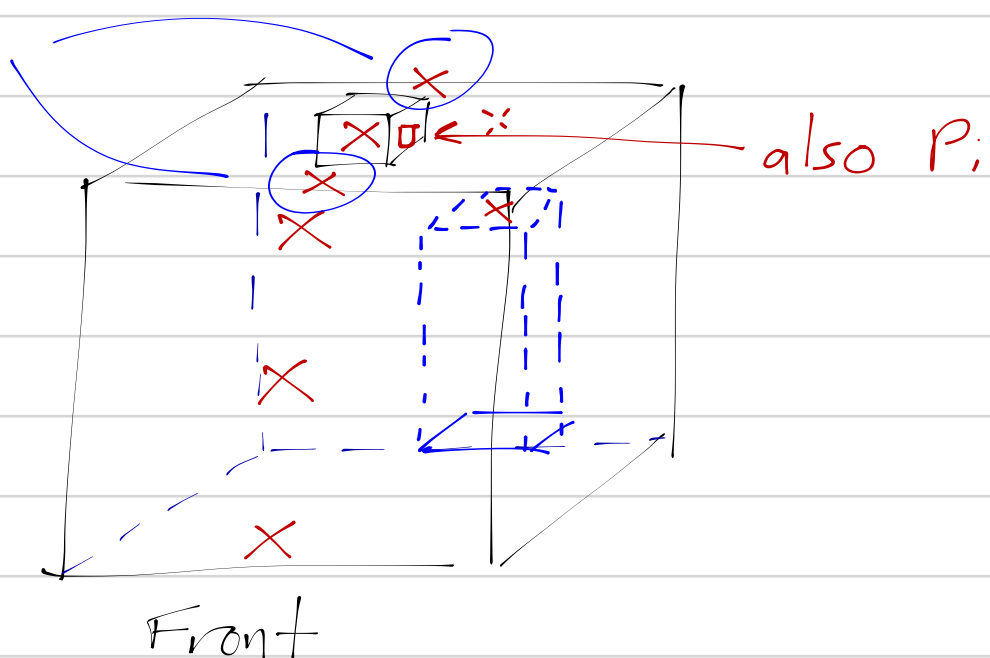


• Humidity → TM36
(not current)

⇒ What are current design issues

- Mesh Network for Xbee's
 - ↳ External screw-in antennas
 - ↳ Hierarchical Network → Difficult
- Comms
 - ↳ Sleep mode
 - ↳ Zigbee
- Power

Relay?



⇒ Scope Changes :

- IR sensor has changed
- Humidity sensor changed

⇒ POC for further questions

- Karl
- Bronson
- Seremony
- Wayne

⇒ Need:

- Photos of Sensor locations

