Wireless Technology

Power:

* RHD: 3.5 mW -> 1.2 mA
  + 1.2 x 24h = 50 mAh
    - Batteries 12.1 mm radius and 5.4 mm high: way too big
* CC2650: ?
* Batteries:
  + Alkaline is better than Lithium in terms of power density
  + Nickel Metal Hydride battery is rechargeable
  + Lithium Rechargeable energy density = 4.32 MJ/L
    - 0.28 Wh / cc = 1 MJ/L
    - **400 mAh/cc**: best we can do assuming we use 1 cc
      * May be doable since front end uses 50 mAh
  + If battery is out of the question (cannot meet size constraint)
    - Look into wireless recharging

Next Steps:

* Dig Deeper with batteries
* Look into power consumption with wireless transmission
* Look into commercial products (microcontroller + wifi)
* Look into compression to see if that improves data rate and power
* Look into alternative energy sources (like solar power)