Agenda:

* Possibilities for BLE
  + Datarate
  + Compression
  + Energy
* SPI and Analog Front-End

Friday: 3:30 PM

attendees: undergraduates, GW, Hamed

Minutes:

* Compression: Confirm TK and Yuan disparity
  + Require 50% compression, but LZO doesn’t really ever reach.
  + Must keep looking at other algorithms and see if we can achieve that much
* BLE:
  + See if we can achieve theoretical individual throughput times 4 if they are all trying to transmit at the same time
* Timeline:
  + Complete prototype by 2/22
    - Ideally afterwards, we do animal testing and create a IC
      * If we can’t complete prototype by 2/22 then we probably can’t do animal testing
* PCB:
  + Intan not on PCB, will have wire running to it
  + LVDS, NRF, BATT, patch antenna
* Objective Sheet for 2/22:
  + Write up all the parts on PCB
  + What needs to work:
    - End to end operation working separately
      * Fake Data to SPI
      * Compression:
        + Require 50% compression
        + Currently only has 33% compression
        + Characterize data and see if we can get 20% on realistic data; should be done

Needs to be working on NRF

* + - * BLE Bandwidth testing with multiple slaves
      * Real Power Consumption Characterized
      * BLE to PC working
      * Stretch Goal: End-To-End