Minutes for **20 March, 2012** Team Silent Rave

Team Leader: **Sara Taylor**
Secretary: **Mark Wurzelbacher**

Team members in attendance:
Michael Sizemore, Mark Wurzelbacher, Sara Taylor, Eric Nolan, Tom Blanford

Meeting Summary

- Clock:
  - Unresolved issue as to whether the clock we've been producing is the issue responsible for the A/D problems we've been having - "cleanliness issues"
- Battery:
  - found LiFePO4 chargers for 3.6,7.2
  - chargers that can boost voltage pre-charge?
  - can we use USB 5V to charge 7.2V or 2 separate ~3.2V w/ multiplexing?
  - OR we could have 2 chargers, each connected to its own battery?
  - If all else fails, we can resort to a "wall-wort" (9V)
- ADC:
  - Still having issues getting the external ADC to work.
  - Dr. Schafer asked about our testing procedure.
  - Tom will check with Clint Manning to see if we can get a better clock/signal generator
  - We are testing with an input clock to see if we can get an output pin to switch lo-hi
  - Dr. Schafer asked about any sample-hold protocol or handshaking
  - Tom sent in a product help request to Analog Devices, asked for more specs and help
- Alternative A/D chips
  - Tom found one that runs on 3.3V on Wolfsen
  - Looking on TI as well
  - Trying to get an eval board to get moving on the DSP programming
  - Dr. Schafer requested to look at the current A/D spec sheet to offer his advice

Unresolved Issues

- Rapidly approaching the point where board needs to get designed
- We need to solve our two main issues (A/D and Battery) in order to move onto our next step

TO-DO:
Battery problems: Eric and Mark
Headphones: Sara will make purchases
Interface - need volume wheel (pot resistance?), mode selection ~~(4-way switch?) or~~ 2 separate switches(a 2-way and a 3-way), reset button: Sara
A/D: Michael and Tom

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Updated plans for after graduation:
Mark: will be attending Northwestern University for his Masters in Music Theory
Michael: Will be working for Lutron in Allentown, PA as a Senior Project Engineer