Crystal Breath

11th Meeting: Designing the DSP board

4/4/2013

12:30 PM – 1:30 PM

Meeting called by: Crystal Breath

Attendees: Nicholas Castro, Suong Do, Joe Duffy, Joe Levri, John Mullaney

Agenda/Meeting Leader: John Mullaney

Minutes: Nicholas Castro

Time:	Question/Task: How do we design the DSP board?	Location:
12:30	**Since last week:** We've been able to capture audible breath signals with the microphone circuit.	Stinson Remick

We've decided what we need on the DSP board:

- ADC
- Fourier Transform Capabilities to identify breath frequencies and amplitudes at those frequencies
- USB connection to computer
- Battery powered
- Audio playback capabilities for active listening

The website is also up and ready to be updated as the project progresses.

<u>Action Item:</u>

Design the DSP board in Eagle.

- Use data sheet of dsPIC as reference
- Meet again Saturday, April 6, to gauge progress

Finish board design by Thursday, April 10.

Additional Information: