

Minutes - 2/20/13  
Team leader - Nick

#### Batteries

- Is lithium ion the better choice? 3.6 volts
- It has better energy density
- Only need two cells
- How much current will we run?

#### Charger

- Charging circuits were complicated. Maybe not rechargeable?
- Then maybe we can use a standard battery AA or C
- Then the wall plug would just power the keytar without charging anything
- Charger should be able to handle the load

#### Boards in eagle

- We need to start thinking about how we're going to mount our boards before we talk about connectors
- Use screw things to mount keys? They tend to be large
- No way to copy part of a board layout, maybe? ULP?

#### LCD instead of Sixteen segment

- Made by Newhaven
- Serial can talk i2c, spi
- They have a starter code

#### Subsystem demonstrations:

- Set time: we can do 9:30, but we might need to schedule another time

#### Audio output amplification circuit

- potentiometer
- First stage is an op amp that takes away dc component
- 2<sup>nd</sup> stage makes sure that there aren't loads effecting output
- shutdown pins
- we should prototype it
- use function generator

### **Post Schafer meeting**

Chose button

#### Batteries

- Right now, we'll just make sure it can run of the wall
- Later we'll decide rechargeable vs. disposable

#### Output pins

- 25 keys
- 7 chord buttons
- 7 special effects

Terminal blocks

LCD

We're gonna