Team Leader: Nik Kleber

Secretary: Zach Stauder

Attendance: Everyone Attended.

## Summary:

- Updates from last week
  - Piano-key and chord button boards are essentially finished besides for quick changes of unused pins
  - Microcontroller board is also almost finished. Decoupling capacitor sizes need to be changed (see below)
    - Ribbon cable connections should be tested for verification
    - Add name to board
  - dsPIC board is also almost done
    - How will wave tables be written into flash device? Could use serial port, virtual comm port, flow control
- Before submitting boards
  - Go to Advanced Circuits website and run DFM on boards (cam jobs)
  - Check ground, VDD, programming interface
- Board Advice
  - Be sure to correctly set remappable pins on boards
  - Capacitors for Boards
    - Use 12-6 for Vcap for Pic24
    - Use 0603 for other decoupling capacitors for Pic24
  - Pull-up resistors for I2C included in board?
  - Can use "clear all" to clear display of errors?
  - Watch for Overlap Errors
  - 0.4 mm is smallest size via that can be used
- Lead time on boards is about 1.5 weeks
- Plan of action during board processing
  - Quadrature Encoder
  - SPI communication with SST
    - Watch the write protect pins and address pins
    - Use MOSI and MISO instead of SDO and SDI for labels
  - Battery research
    - Use Molex 2 Pins for power between boards?

Assignments for the week:

- o Microcontroller Board: Zach
- o DSP Board: Jake, Nick, Nik
- o Piano-key and Chord Boards: Shawn


Next Meeting: Thursday, March 24 from 7:15 – 8:30 pm