- Eagle is available on computers in Senior Design room
- Problems with ribbon cable (and which pin goes where)
  - He takes a sample and puts meter on it to see which pin is going to which pin.
- Assuming eagle works, can do piano key input board and chord input board
- Send email if computer doesn't have eagle
- In as much as you have parts available, print out board to scale and place parts on the board to see if it fits.
- Drill size:
  - Bigger than pin size
  - Drill size is finished size on eagle
- For new amp – it's probably okay to test it without heat sink, just don't do it too long.
- Stereo head phone jacks in the closet?
  - Can just take one off old senior design project
- Need PICkit 3 interface for 24-bit uProcessor. – in mylib.lib, just look up pickit3 for the type of connections
- He has 24 series boards with 24 series uProcessor. Can test out programs on it before the final
- Be careful with SPI
  - MOSI – microcontroller out, slave in
  - MISO – microcontroller in, slave out
  - Don't connect outs together or ins together
- For boards
  - Put text on board
  - Team name, version number
  - Values of C and R
  - Label pins (pin 1)
  - (draw arrows if needed)
- For ground plane.
  - Want it all connected, and it will warn you if it gets disconnected.
  - .4 mm for vias if the board is too dense. (default is .7 mm)
- Pretty is good = make board symmetric
- Make wires coming out of pins no wider than the pin
- Make sure capacitors are there for uProcessor (absolutely need or it won't work)
- Triple check power and ground.
- Put some sort of serial capability on it (for logic analyzer)
- Were thinking of using SPI to have an LCD that we can use to debug

Assignments:
Nik, Nick, and Jake - work on dsPIC board
Zach – microcontroller board
Shawn – key inputs and chord inputs board