

**January 25th, 2013**

[Updates:](#)

[To-do:](#)

**Updates:**

- Next two weeks: circuit schematics, PCB layouts
- Dr.slack's suggestion for manufacturing offers student discount but all files must be gerber and have tight tolerances.
- Eric will manage the BOM

**To-do:**

- Add buck converter to circular piece
- Send files for printing at printsnap.com
  - Link tube to circular part
- Find a pick and place machine on campus
- Create circuit schematics, simulations, PCB layout
- Tube height tolerances: #45 28.652, 31.990. Inner diameter: 2mm outer: 4mm
- Contact Knolls
- Additional pieces for the back: VCC 10uf and .22 uf, battery voltage divider, 17 resistors and capacitors, thermostter, charge current control, max charge current, output
- Add tubing prices to spreadsheet
- Hook/breakout boards, decoupling capacitors for testing
- Make a list of things needed to debug: amplification, battery charging, PCB express,etc.
- Find information for the tax exempt forms
- Information for human subject testing
- Apply for T.I. grant
- CAD files finalized
- Create clipboard survey
- Find information on heat dissipation, heat sinking (ways to alleviate heat transfer)

**Discussions:**

? Delete Coulomb counter: + battery charge, and voltage regulator /- space