Currently the Incubator is being designed in sketchup, and the various PCBs are being designed with cadsoft eagle.

The incubator design is a rough draft at this time

Currently the only PCB that has been added to this repository is the USB to Molex.

USB Junction is designed to connect PT100’s to a common junction before connecting to another PCB that will interpret the analog signal then send the data signal to arduino101.

The Analog to Digital Temperature Board currently is being designed two way’s and I need your help to decide which is better:

I2C with MCP3422- this chip has the ability to withstand 125 operating temperature

SPI with ADS1248- this chip is 24 bit and would allow a single board to interpret 135 degrees with an accuracy of 0.01 (the accuracy of 0.01 is necessary however the incubator only needs about 50 degrees, other projects in the future will need different ranges, using this option would allow the temperature board to be interchangeable into different units as well.