Sunday, September 14, 2014
10:48 AM

Data from daughter board to micro

Labview will request serial data, which will determine which daughter board is connected, open the appropriate VI and disable the rest.

Sample time to be set from labview and then RUN

Labview will control the specific daughter board. (no option select)

First request will be a manual request to the micro to provide temperature data. **Acquire button**

Remaining can be automated by providing the sampling time (minimum sampling time to max period)
start stop buttons

Temperature option in both Celsius and Fahrenheit

Graph the data and also print to csv file (**During monitoring**)

Control the temperature (attached device to the micro)
Relay attached to the micro

Enable temperature control using PID
Providing more options (assuming that relay is connected)

Setpoint
Current temperature based on sampling time feed into PID along with setpoint will determine the state of the relay

Relay will be a heat source.
Determine weather to provide a cooling source with an additional relay.

Both sources should not be on at the same time.

Graph the data and also print to csv file (**During control**)

Future: Implement hysteresis limits to provide control over two relays (hot and cold elements)