WEEKLY STATUS REPORT

DATE: 5/1/2016 – 5/7/2016

What I did this week:

- Implemented function to update time on x axis of each plot (temperature vs. time and wire feed speed vs. time)
- Fixed problem with plots resizing and collecting too much data. Ended up adding a clear data function and reading ten samples at a time.
- Completed hand-drawn as well as Eagle CAD schematic of wiring diagram
- Divided capstone report sections up. Try to have rough draft complete by next week.
- Worked on testing the temperature sensor to obtain parameters for given current settings. Datasheet states sensor must be placed 30 inches away to measure a 1 inch uniform area.
- Aram would like to add a few more user input parameters to the GUI
    - On/Off time for duty cycle
    - Upper/Lower limits for temperature values
- Completed weekly status report

Any issues I encountered:

- Unfortunately the implementation of the lasers in the temperature sensor fixture were not accurately hitting the area of the weld. Aram would like to purchase a fixture that will place the temperature sensor in a position that will measure the area correctly.
- We tested the temperature sensor with a solder gun to see if 30 inches would measure the temperature accurately. We were not sure if the measurements were accurate. Possibly because the point of the solder gun is much smaller than a 1 inch uniform area.

What I will be working on next:

- Writing my sections of the report
- Adding new parameters to GUI

Notes: None