WEEKLY STATUS REPORT

DATE: 4/24/2016 – 4/30/2016

What I did this week:

- Designed new graphical interface based on project changes
  - Implemented the user input functions: set wire feed speed and set accuracy
  - Implemented the two buttons: update and stop. Both are functioning as expected.
  - Implemented the textboxes to display the temperature, wire feed speed, and current setting. Also implemented two gauges that display the wire feed speed and current since these are what are displayed on the welder.
  - Implemented the two plots: wire feed speed vs time and temperature vs. time.
- Began labeling wires coming from the breakout boards. Needed to re-label the previous groups wires and formalize a wiring diagram.
- Completed weekly status report

Any issues I encountered:

- Could not display the current settings "A-F" on the gauge so I chose to display the amount of amperage corresponding to the specific current setting instead
- Through testing, we ended up having problems displaying the data on the graphs. Instead of a real-time set of data that shifts from right to left, the data is collected continuously and the graph's window shrinks to accommodate this data. This might be solved by changing the infinite element string array into a defined amount array.
- Also, I would like to fix the time on the x axis to update in real-time.

What I will be working on next:

- Sponsor would like to add a third gauge to display temperature
- Cosmetic changes on the GUI
- Sponsor would like a hand drawn schematic of wiring diagram. Will also be working on at CAD file of this schematic for the report.

Notes: None