

WEEKLY STATUS REPORT

DATE: 3/13/16 – 3/19/16

What I did this week:

- Tested Current Sensor in Power lab
 - During first test we supplied the current sensor with 0-100A and recorded the voltage values. Unfortunately, we recorded the Vrms values instead of the Vpeak values. Also, we did not record enough values to determine the type of relationship between the data points.
 - During second/third tests we supplied the current sensor with maximum 60A, AC, 60 Hz signal and recorded the Vpeak values. Between the second and third tests we changed the resistance from 1k ohm to 1k ohm + 82 ohm resistor. The results showed a polynomial 3 relationship. There is also a delay observed from the input to the output.
- Prepared and presented progress report for Dr. Marek
- Dr. Marek suggested adding large capacitor to the input to eliminate noise seen by power supply.
- Purchased voltage regulators and capacitors from Frys.
- Tested adjustable power supply. Put a 4700 microfarad capacitor after supply voltage, used high precision 12V regulator, and added another 4700 microfarad capacitor. Output was much cleaner.
- Graduate student suggested to use Python to create GUI. Can integrate our C code with this GUI.
- Completed on weekly status report and began writing written progress report.

Any issues I encountered:

- During the first test, we had gathered the Vrms values instead of the Vpeak values

What I will be working on next:

- Integration of current sensor
- Finishing progress report

Notes: