**Mentee Information**

Name: Patrick Wasilewski
______________________________  Date: 10/08/15

NetID: pwasile2   Email: pwasilewski727@gmail.com  Year (F, S, J, Sr): Sophomore  Major: ECE

**Mentor Information**

Name: Ti Xu
______________________________  Date: 10/08/15

NetID: txu20   Email: txu20@illinois.edu
Department: ECE Power and Energy Systems  Faculty Advisor: Thomas Overbye

**Fall 2015 Research Plan**

1) Write a brief outline of your research plan:

Renewable Energy

The benefits of Coordinative Operations of Concentrated Solar Plants and Wind Farms:

In this project we will build a simulation model to study the impacts of coordination between concentrated solar plants and wind farming on power system reliability, economics, and environmental indices. To do so we will have to find equations for wind farms and concentrated solar farms, depending on location and other factors. From there we can find several outputs based on levels of efficiency or cost effectiveness we would like.

2) What do you hope to learn and achieve by the end of the semester?

I hope to learn more about the topic of alternative energy, and if it’s a path of ECE I would be taking in the future.

I’m also interested in learning more about the process of simulating something like this, and also to be in a research environment.

Mentee Signature: ___________________________  Date: 10/01/15

Mentor Signature: ___________________________  Date: 10/01/15