

# Statement of Contribution

## **Zagros Shahooei**

A part of this project including some portions of chapter 2 to 4 were a part of ongoing research project established spring 2012 under supervision of Dr. Mork and Dr. Weaver. John Njoroge was firstly working on the project and in summer 2012 I took over the research. In this project conducted for EE5223, I developed the simulations of different charging levels in ATP Draw. Furthermore, the results of these simulations were utilized to set up and implementation of several experiments using SEL-421, protection, automation, and control system. All the simulations, experimental implementations and discussions on the results are done by me. I also worked on designing a passive filter to remove the harmonics from the system which is presented in Appendix B. I did the writings, typing, and figure drawings of chapters 1 to 6 and also Appendixes.

*Zshahooei*

## **Sarah Wells**

The topic in which I became an expert on was aggregation effects on the power system. I did lots of research in order to get information for chapter 6 of our project. I found a poster that was created by the University of Vermont. This was very useful with certain parts of my chapter, including the charging scenarios. Most of my research, however, was done through the help of IEEE papers. There were many IEEE papers written on this topic but I found five of them that were very informative and useful for my chapter. Through reading them, I was able to find many equations and examples which I was able to use. I enjoyed working on this topic very much and have learned far more than I anticipated that I would. This term project was a great experience and I'm going to take so much away from this.

*Sarah Wells*