SPRING 2016 Research Plan

1) Write a brief outline of your research plan:

This project will quantify the optimizations designed and implemented in last semester in Flipit. User control of code regions susceptible to faults will be extended allowing for more precise control and a reduction in instrumentation overhead. In addition, support for shared memory programming models such as OpenMP, or accelerators such as GPUs will be explored. Research meetings will be held weekly and a detailed project plan will be constructed before research begins.

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

Hopefully, by the end of the semester we would be able to finish most tasks listed above, and during the progress of this project, we will explore multiple concepts in HPC and software/compiler interactions.