

**CSSE 492 – Software Dependability**  
**Winter 2007**  
**Paper 1**

**Due 1/23/2007**

There are two approaches to building dependable systems: (1) improving the dependability after the system is built, and (2) building the dependability into the system through out development process. Pick one of the dependability attributes (e.g., reliability, safety, security, performance, or availability) and research approaches to both (1) and (2) to ensure the specific property. Argue the pros and cons of either approach and discuss what you think a suitable software engineering process should entail.

The body of paper should be 1500 -- 2000 words. There are a lot of resources available to you. A good paper should cover a variety of issues but you should know when to stop. Remember that you will not be able to cover everything in a short paper, but make sure that you pick what you think is most important. Your paper should be free from grammatical and spelling errors. Please do not discuss the content of your paper with each other, but feel free to discuss the resources and reading materials. Make sure you acknowledge every source you have used. Your references must be from reputable sources (ACM, IEEE digital libraries are a great start). Your grade will depend on the quality of your research, quality of the writing, and your additional insight into the problem.