

# William S. Greenwell

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## Education

### **B.S., Computer Science with High Distinction, University of Virginia, May 2001**

- Minor in economics through the College of Arts & Sciences
- Final GPA: 3.643

### **M.S., Computer Science, University of Virginia, May 2003**

- Research concentration in dependable computing, systems safety assurance

### **2<sup>nd</sup>-Year Ph.D. Student in Computer Science, University of Virginia**

- Research concentration in dependable computing, systems safety assurance
- Expected graduation date: May 2006

## Professional Experience

### **Intern Software Engineer, Northrop-Grumman Corp., Newport News, VA, 1996-2001**

- Duties included development, testing, and maintenance of battle management software using C and C++ and interface design and implementation using X-Windows Motif.
- Software engineering practices employed included design reviews, code reviews, software verification techniques, and code analysis using tools such as Rational Software's Purify and Pure Coverage.
- Employed during the summers between 1996 and 2001.

### **Student Researcher, National Institute of Aerospace, Hampton, VA, 2002-2004**

- Summer appointments to research improvements to investigation and reporting techniques for accidents and incidents involving safety-critical software systems

## Selected Publications

Greenwell, W.S. "Pandora: An Approach to Analyzing Safety-Related Digital System Failures." Diss. proposal. U of Virginia, 2005.

Greenwell, W.S., Strunk, E.A., and Knight, J.C. "Failure Analysis and the Safety Case Lifecycle." Submitted to HESSD 2004, the IFIP Working Conference on Human Error, Safety and System Development, Toulouse, France, August 2004.

Greenwell, W.S., Knight, J.C., and Strunk, E.A. "Risk-based Classification of Incidents." *Proc. 2<sup>nd</sup> Workshop on the Investigation and Reporting of Incidents and Accidents*, Williamsburg, VA, Sept. 2003.

## Languages

Spoken Languages: English (native) and Japanese (4 semesters)

Programming Languages: C/C++, Java, Visual Basic, Pascal, Prolog, Scheme

Specification Languages: Z, PVS

Modeling Languages: UML (Visio & Rational Rose)

## References

References available upon request.