

# Aaron Massey

**URL:** <http://www4.ncsu.edu/~akmassey/>

**Email:** [akmassey@ncsu.edu](mailto:akmassey@ncsu.edu)

## EDUCATION

### **North Carolina State University, Raleigh, NC**

#### **PhD in Computer Science**

**Expected May 2011**

Researching computer privacy and security topics with my advisor, Professor Annie Antón, focusing on legal compliance to prevent data breaches. Studying traceability from legal and policy documents to software requirement specifications to demonstrate due diligence in a court of law.

### **North Carolina State University, Raleigh, NC**

#### **MS in Computer Science**

**May 2009**

Completed core course requirements and researched a method for evaluating the legal compliance of existing security and privacy software requirements.

### **Purdue University, West Lafayette, IN**

#### **BS in Computer Engineering**

**May 2003**

Studied computer network security with Professor Carla Brodley. Created a Denial of Service (DoS) attack detector and analyzed how an Intrusion Detection System (IDS) can fail gracefully.

## EXPERIENCE

### **Research Assistant to Dr. Eugene Spafford at CERIAS, Purdue University, West Lafayette, IN Summer 2009**

Researched the implementation of legally-required auditing mechanisms in information systems. Designed a case study to investigate current industry practices in this research area. Implemented tool support to improve these legal compliance efforts.

### **Teaching Assistant for CSC591e / CSC791e – Privacy Technology, Law & Policy, Raleigh, NC Spring 2009**

Supported curriculum planning, grading, and teaching of a new graduate-level course in the computer science department on privacy technologies and their impact on law and policy.

### **Google Policy Fellow at the Cato Institute, Washington, DC**

**Summer 2008**

One of 12 students selected in North America for a Google Policy Fellowship (~3% acceptance rate). Contributed to the Cato Institute's study of policy that balances privacy, anonymity, security, and convenience in identification and authorization systems infrastructure.

### **Graduate Research Assistant to Dr. Antón, Raleigh, NC**

**May 2007 - May 2008 & Aug. 2008 - Present**

Conducted research in open source electronic health records systems and healthcare information technology standards. Prepared briefing for Dr. Antón on Social Security Numbers and identity theft. Edited Dr. Antón's congressional testimony before the House Ways & Means Subcommittee on Social Security (June 21, 2007) as well as her presentation as a panelist at the Federal Trade Commission's workshop entitled "Security in Numbers: SSNs and ID Theft" (Dec. 10-11, 2007).

### **Software Engineer & System Design Engineer, Advanced Micro Devices, Austin, TX**

**2003-2006**

Authored, debugged, and tested various Linux Device Drivers for the Alchemy MIPS and Geode x86 embedded processor group, including a dynamic power management driver which allowed for any device to be individually power managed automatically as a part of an overall system policy. Wrote initial object oriented SimNow models for parts of the Geode x86 embedded processor line.

**Co-Op Student Intern, Advanced Micro Devices, Austin, TX****Jan. 2001-Aug. 2001**

Tested the AMD PowerNow! power management algorithm along with other candidate algorithms.  
Wrote Linux documentation for upcoming Linux projects. Programmed, debugged and tested BIOS code in x86 Assembly for customer reference motherboards.

**Co-Op Student Intern, Siemens ICN, Boca Raton, FL****Fall 1999 and Summer 2000**

Programmed an interface to a Knowledge Support Systems database in Visual Basic. Trained on the use and maintenance of a telephone relay switching system. Reviewed, tested and edited procedures for troubleshooting and upgrading telephone relay switching systems.

**PUBLICATIONS****Book Chapters****Behavioral Advertising Ethics**

Aaron K. Massey and Annie I. Antón

*(In Press) Information Assurance and Security Ethics in Complex Systems: Interdisciplinary Perspectives*

Dr. Melissa Dark, ed., estimated publication 2010.

**Journals****Evaluating Existing Security and Privacy Requirements for Legal Compliance**

Aaron K. Massey, Paul N. Otto, Lauren J. Hayward, and Annie I. Antón

*(In Press) Requirements Engineering Journal, Special Issue on Security Requirements Engineering*, estimated publication 2010.**Workshops****Prioritizing Legal Requirements**

Aaron K. Massey, Paul N. Otto, and Annie I. Antón

*Second International Workshop on Requirements Engineering and Law*, Atlanta, GA, September 2008.**A Requirements-based Comparison of Privacy Taxonomies**

Aaron K. Massey and Annie I. Antón

*First International Workshop on Requirements Engineering and Law*, Barcelona, Spain, September 2008.**Posters****Aligning Requirements with HIPAA in the iTrust System**

Aaron K. Massey, Paul N. Otto, and Annie I. Antón

*16th IEEE International Requirements Engineering Conference*, Barcelona, Spain, September 2008.**HONORS & AWARDS****North Carolina State University**

Google Policy Fellowship Recipient, Walter H. Wilkinson Graduate Research Ethics Fellowship Recipient

**Purdue University**

Fessenden-Trott Scholarship Recipient, Dean's Engineering Scholar at Purdue University, Semester Honors (Fall 1998, Spring 1998, Fall 1999, and Fall 2001)

**Noblesville High School**

National Merit Scholarship Recipient, Two-time World Finalist in the Odyssey of the Mind creative problem solving competition, Ranatra Fusca Award Winner.

**PROFESSIONAL ACTIVITIES**

Member of The Privacy Place, since January 2006

Member of the Institute for Electrical and Electronics Engineers (IEEE), since December 2006

Member of the Association for Computing Machinery (ACM), since June 2007

Member of the U.S. Public Policy Committee of the ACM (USACM), since June 2007

Member of the International Association of Privacy Professionals, since March 2008

### **EXTRACURRICULAR ACTIVITIES**

Winner of Bruce Schneier's 2008 Movie Plot Threat competition. Former Site Admin for the official Gentoo Linux support forums. Active in the open source software community since 1999. Member of the Purdue Society of Professional Engineers Rube Goldberg team.

### **SKILLS**

Spoken Languages: English (native), German (4 years)

Computer Languages: C, C++, Java, Python, Ruby, JavaScript, HTML, Bash, MATLAB and FORTRAN 77

Operating Systems: Mac OS X, Linux (Gentoo, Red Hat, SuSE, Ubuntu and Debian), FreeBSD

Architectures: x86, x86-64, MIPS, PowerPC

Development Environments: Eclipse, NetBeans, vim