

## Professional Experience

2005-present: Systems Analyst, **Oak Ridge National Laboratory (ORNL)**, Computational Sciences and Engineering Division, Oak Ridge, TN

2007: Instructor, **ITT Technical Institute**, Knoxville, TN

2003-2004: Independent Software Design Consultant, **IdleAire Technologies**, Knoxville, TN

2000-2005: Senior Computer System Designer, **University of Tennessee**, Center for Information and Communication Studies, Knoxville, TN

## Education

**M.S., Computer Science**, University of Tennessee - Knoxville, 2004

**B.S., Computer Science and Honors Mathematics**, University of Tennessee - Knoxville, 2001

## Professional Activity

- Software developer for Department of Homeland Security, Federal Bureau of Investigation, National Nuclear Security Administration, and Department of Defense applications
- Lead designer and developer for ORNL Sensorpedia project
- Speaker and promoter of Gov 2.0 concepts using Web 2.0 and Social Networking principles to improve information sharing capabilities
- Provide Human-Computer Interaction design and consulting for ORNL High Flux Isotope Reactor (HFIR) emergency management software
- Lead developer for the ORNL SensorNet web service framework
- ORNL representative to Open Geospatial Consortium Web Feature Service and Sensor Web Enablement working groups
- Coordinate student internships and co-ops for the ORNL Sensorpedia and related programs
- Active **DOE Q Clearance**; Prior FBI and OPM security clearances

## Current Research Interests and Activity

- Information sharing: social networking and collaborative software, tagging systems, multifaceted classification, interoperable architecture design
- User interface design: human-computer interaction, distributed human-based computation, informal interfaces, sketch- and touch-based computing
- Wide-area sensor networks: standardized data formats, data sharing, mashups, GIS and visualization

## Awards

- Top Graduate in Natural Sciences Division of the College of Arts and Sciences, University of Tennessee, 2001
- IPSN '06, Best Large-Scale Demonstration Award, 2006
- Provost Award - University of Tennessee Citation for Extraordinary Academic Achievement, 2001
- Member of Phi Beta Kappa, Pi Mu Epsilon, Golden Key, and University of Tennessee Honors Programs

## Recent Publications

- B. L. Gorman, D.R. Resseguie, C. Tomkins-Tinch, "Sensorpedia: Information sharing across incompatible sensor systems," pp.448-454, 2009 International Symposium on Collaborative Technologies and Systems, 2009.
- B. L. Gorman, D.R. Resseguie, M. Shankar, "Designing Information Interoperability," 2009 Special Operations Forces Industry Conference, 2009.
- M. Shankar, A. Sorokine, B. Bhaduri, D. Resseguie, S. Shekhar, J. S. Yoo, "Spatio-Temporal Conceptual Schema Development for Wide-Area Sensor Networks", Conference on Geospatial Semantics, 2007.
- A. Ledeczki, D. Resseguie, "Dirty Bomb Detection and Localization in a Crowd", Information Processing in Sensor Networks, 2006.
- D. Resseguie, "Weaving a Spatio-Temporal Sensor Network: Feature Composition and Translation for Interoperability", GeoWeb, 2006.
- D. Resseguie, "Evolving Sensor Networks: Bridging Developed and Emerging Standards," Open Geospatial Consortium TC Plenary, 2006.

## Recent Presentations

- East Tennessee CyberSecurity Summit, speaking on benefits of social networking technologies for information sharing
- Tap the Collective in Washington, DC, speaker and panelist, participating with Don Burke of the CIA's Intellipedia and Emma Antunes of NASA's Spacebook
- DOE Packaging Certification Program Technical Review, speaking on Sensorpedia framework's applicability to Tracking 2.0
- National Geospatial-Intelligence Agency R&D Forum 2.0 (NRF 2.0), speaking on Sensorpedia framework's applicability to geospatial intelligence
- NORTHCOM Joint Interagency Coordination Group (JIACG), briefed working group on Web 2.0 and social networking concepts applied to information sharing
- DOD Joint Urban Test Capability, briefed research group on key differences between integrated and interoperable system architectures for information sharing
- Briefed Sensorpedia and related concepts to dozens of ORNL management, visitors, and sponsors