

# Kraig King

## **Home Address:**

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## **Education:**

2008 - Present	PhD, Department of Spatial Information Science and Engineering IGERT Fellow (Sensor Science Engineering and Informatics) University of Maine, Expected graduation date: Spring 2011
2007	MS, Department of Spatial Information Science and Engineering University of Maine
2000	BS, Department of Computer Science University of Maine

## **Computer Skills:**

### Operating Systems

- Mac OS
- UNIX/Linux
- VAX/VMX/CMS
- Windows 9X, NT, 2000, XP, Vista

### Programming Languages:

- C / C++
- FORTRAN
- HTML
- Intel x86 Assembler
- Java / Java scripting
- Motorola Assembler
- Pascal / Multi-Pascal
- RDF / XML
- SQL
- Visual Basic 6, .Net
- Dynamic C

### Specialized Software:

- AutoCAD
- FARO CAM2 Suite
- ESRI ArcView GIS
- Microsoft SQL Server
- Oracle DBS
- MySQL
- Unigraphics
- Vericut

**Related Classes:**

## Computer Science

- Advanced Topics in x86 Assembler
- Computer Algorithms
- Computer Architecture
- Data Structures in C++
- Discrete Structures
- Hardware Programming in C++
- Intel x86 Assembler
- Operating Systems
- Parallel Programming
- Programming in C++
- Programming in Fortran
- Programming Languages
- Software Engineering

## Mathematics

- Calculus I, II, III
- Linear Algebra
- Statistics

## Spatial Engineering and Information Systems

- Engineering Databases and Information Systems
- Graduate Research Methods
- GIS Applications
- Information Systems Law
- Research Ethics
- Reasoning with Uncertainty
- Sensor Systems Foundations
- Spatial Analysis
- Spatial Cognition and Computation
- Spatial Database Systems
- Technology and Commercialization

**Publications:**

- Kathleen Stewart Hornsby and Kraig King (2008). Modeling Motion Relations for Moving Objects on Road Networks. *Geoinformatica*. Springer Netherlands. Volume 12, Number 4. pp 477-495.
- Kraig King (2007). Linking Moving Object Database with Ontologies. Thesis
- Kathleen Stewart Hornsby and Kraig King (2008). Linking Geosensor Network Data and Ontologies to Support Transportation Modeling. *GeoSensor Networks, Lecture Notes in Computer Science (LNCS)*. Springer Berlin. Volume 4540/2008. pp 191-209.

**Honors and Awards:**

- Awarded 2nd place, UMaine Graduate Seminar for the talk "Detecting Injured Personnel in Confined Spaces" (April 2009)
- Received DMP Engineering and Technology Award by GE Energy (April 2007)
- Awarded 'Top Project of the Month' by GE Energy (January 2005)
- Recognized as Significant NPI Research Contributor by GE Energy (May 2004)
- Elected Vice President of the UMaine chapter of the National Computer Science Honor Society (Fall 1999)
- Inducted into the National Computer Science Honor Society (Spring 1999)
- Deans'List (Fall 1995, Spring 1996, Fall 1996, Spring 1997, Fall 1997, Fall 1998)

**Consulting:**

- GE Stean Turbine Final Assembly (Schenectady, NY)
- GE Advanced Composite Materials (Newark, DE)

**Related Work Experience:**

- 9/2008 - Present      *Graduate Research Assistant*  
*Department of Spatial Information Science and Engineering*  
*University of Maine, Orono*  
-Focus: Gene Regulatory Networks with Silvia Nittel (PI)  
-Investigating methods for boundary detection with GRNs
- 4/2008 - Present      *Engineer Leader*  
*GE Energy*  
-Manage a diverse team of Manufacturing Engineers and NC Programmers  
-Lead the development, introduction and manufacturing of new product lines  
-Design and develop new machines and processes to advance manufacturing capacity
- 1/2006 - 12/2007      *Graduate Research Assistant*  
*Department of Spatial Information Science and Engineering*  
*University of Maine, Orono*  
-Focus: Spatio-Temporal Data Fusion with Kathleen Hornsby (PI)  
-Investigating methods for linking ontologies with databases  
-Exploring ontological 'generalization and specialization' relations  
-The role of space and time with respect to ontology-dbase linking
- 1/2005 - 4/2008      *Manufacturing Engineer*  
*GE Energy*  
-Participate in the manufacturing of new product lines  
-Design and develop new machines and processes to advance manufacturing capacity
- 6/2000 - 1/2005      *CMM Programmer/Methods Engineer*  
*GE Energy*  
-Created and maintained software for automated coordinate measurement machines  
-Developed improved manufacturing methods to reduce cycle and improve quality
- 12/1998 - 6/2000      *Programmer and Application Analyst*  
*GE Power Systems*  
-Created and maintained software for a variety of applications  
-Extracted data from numerous 'GE' legacy systems  
-Provided user support for existing databases, applications and software
- 10/1997 - 5/2000      *Network and Web Manager*  
*Maine Campus Newspaper at the University of Maine, Orono*  
-Maintained a small LAN with three servers and 34 workstations  
-Provided support for a variety of production software  
-Created and maintained the online newspaper
- 10/1995 - 10/1997      *Network and Software Consultant*  
*Instructional Technologies at the University of Maine, Orono*  
-Installed and configured network hardware in workstations  
-Assisted with network management and upkeep  
-Provided support for software related problems

**References:**

Furnished upon request