

Ken Bannister

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http://cytheric.net

Summary

My goal is to develop software that integrates embedded wireless devices with the outdoor environment to provide usable information and control systems.

- Trained computer scientist, published researcher; specialist in embedded wireless networks.
- Accomplished application and system software developer -- ranging from enterprise internet application development to a software driver for a soil probe.
- Fluent in object-oriented and network software development.
- Commercial Java developer; also experienced with C/C++ and Perl and able to adopt new languages and tools as needed.
- Excellent written and oral communicator.

Academics and Publications

Department of Computer Science and Engineering

Arizona State University · Tempe, AZ

2005-2008

Enrolled in Master of Science program; GPA 3.9. Researching temperature-based reduction in link quality for low-power outdoor wireless networks. Developing sensor network for soil conditions at the Desert Botanical Garden. Created custom circuitry and TinyOS driver to interface a soil probe to a wireless mote.

Kenneth Bannister, G. Giorgetti, and S. K. S. Gupta, *Wireless Sensor Networking for "Hot" Applications: Effects of Temperature on Signal Strength, Data Collection and Localization*, Fifth Workshop on Embedded Networked Sensors (HotEmNets '08), June 2-3, 2008, Charlottesville, Virginia, USA.

California State University - East Bay · Hayward, CA

San Francisco State University · San Francisco, CA

2004-2005

Ten courses in preparation for a computer science master's program. GPA 3.9.

North Carolina State University · Raleigh, NC

1978-1982

B.S. degree in Botany. National Merit Scholarship.

Development Experience

Contract developer · **Get2Hawaii** · Honolulu, HI (telecommute)

2001-2004

Developed several projects to provide important functionality for a SOAP-based application server for air and car travel reservations. Integrated backend Sabre reservations system and industry standard XML specification for a web service interface. Implemented in Java on Solaris.

Developer · **Cytheric XML and Utilities**

2003

Developed open source utility software for Palm OS. Included XML parser library, generic classes like a memory buffer and string, and updates to the PalmUnit unit testing tool. Developed with C++.

Contract developer · **Mobile Pioneer** · Honolulu, HI (telecommute)

2002

Ported a J2ME wireless chess game to C++ on Palm OS. Implemented a custom request-response protocol on top of TCP/IP sockets library. Developed a straightforward user interface, and a well-documented object-oriented architecture.

Senior developer · **iBuilding** · San Francisco, CA

2001

Developer for a J2EE and XML based, application server for commercial real estate management. Used Java and Weblogic in a Solaris environment. Introduced use of XSLT for document printing. Ten member development team used written requirements, use cases, detailed design, unit tests, code reviews, etc. to facilitate an 8-12 week release cycle.

Senior developer · **iMind education systems** · Corte Madera, CA

1999 - 2000

Developer for a J2EE and XML based server for grade school educational content. Led server-side development of the company's award-winning Internet based education portal web site. Used Java and Oracle in a Solaris environment.

Senior developer · **Kensoft** · Santa Barbara, CA

1994 - 1999

Employee in a software development and consulting firm. Developed a data generation testing tool in Java in an S/390 mainframe environment. Also developed several products with Smalltalk/V, including a graphical scheduling tool and a high performance object-to-relational database storage and retrieval mechanism.

Contract developer · Redondo Beach, CA

1992 - 1994

Developed and maintained an application development tool written in Smalltalk/V for an accounting software company. Implemented a seamless interface to Crystal Reports runtime engine for an executive information system for a bank.

Developer · **Integrated Transportation Software** (now MTI) · Winston-Salem, NC

1986 - 1992

Responsible for design, implementation, and maintenance of two of the main modules (accounts receivable and vehicle maintenance) of an integrated software product for the trucking industry.