

## Personal Information

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## Highlights

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- **Author** of Java Design: Objects, UML, and Process. ISBN: 0-201-75044-9
- **Frequent speaker** at regional and national conferences.
- **Published** many technical articles and whitepapers.
- **Founder** of [www.extensiblejava.com](http://www.extensiblejava.com)
- **Trained and Mentored** over 1000 software developers.

I am a hands-on software developer with over 10 years of industry experience. My passion is using technology to build software that meets your business need.

## Technical Skills

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### Development Methodologies

I have used a variety of software development processes, including variations of the Rational Unified Process (RUP) and Extreme Programming (XP). I feel the ideal process is specific to your team and your project, and is a combination of many proven practices advocated by today's agile development methodologies.

### Object Oriented Design

I have applied a variety of object-oriented design techniques, including OOAD using UML, and Test Driven Design (TDD). I feel a gentle combination of both up-front design and ongoing refactoring results in a more maintainable, extensible, and reusable system structure. I have also applied a number of GOF and J2EE patterns, and advocate applying proven design principles, such as the Open-Closed Principle (OCP), Dependency Inversion Principle (DIP), and Acyclic Dependencies Principles (ADP).

### Programming

With over 6 years experience in Java, I have expert level knowledge of the core Java development platform and much of J2EE, including JSP, Servlets, JMS, JDBC, and JNDI. As a strong open source advocate, I have used many frameworks, including Struts, Hibernate, Spring, Ant, Log4j, and more. I have also developed applications using PowerBuilder, C, and Delphi.

### Development Environments

I have used enterprise development platforms such as Visual Age for Java, Websphere Studio Application Developer (WSAD), and Eclipse. I have also used a variety of scratch pad environments such as Kawa, Jcreator, and TextPad. I am also experienced in using version control software such as PVCS, SourceSafe, and CVS.

### Databases

I have over 5 years experience with Oracle and DB2. I have also used SQL Server, SQL Anywhere, and MySQL. I am very comfortable writing complex, yet efficient, SQL statements and stored procedures, and have applied a variety of tuning techniques, including stopwatch timing and SQL Explain Plans.

## **Professional Experience**

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### **TeamSoft, Inc. (09/99 – Present)**

#### **Senior Consultant/Instructor**

**Application Architect:** Instrumental in establishing technical vision on a variety of enterprise systems. These systems range from enterprise claims systems, billing systems, transportation and inventory, and customer facing web applications. I have also worked in a diverse range of industries including insurance and financial, utility, and manufacturing.

**Lifecycle Mentor:** Help clients establish core lifecycle activities including requirements gathering with use cases, user interface prototyping, continuous integration strategy using Ant, object modeling using UML, and adopting automated testing strategies.

**Team Leader:** Served as a team leader on many J2EE application development efforts ranging in size from as few as five developers up to teams of 50 developers. Many of these projects used a variety of J2EE technologies including JSP, Servlets, JNDI, JDBC, and JMS. Responsible for adoption of open source products such as Struts, Hibernate, Spring, and Ant.

**Software Developer:** Responsible for a variety of coding activities including functional requirements and framework development.

**Instructor:** Delivered quality training to a variety of clients. Achieved Sun Instructor Certification.

### **Greenbrier & Russel (09/98 – 09/99)**

#### **Senior Instructor**

**Instructor:** Responsible for delivering quality training to clients nationwide. Courses taught include OOAD using UML and Java. Achieved Rational Instructor Certification.

**Courseware Developer:** Developed courseware related to OOAD, RUP, and Java.

### **Physicians Insurance Company of Wisconsin (08/93 – 08/98)**

#### **Technical Leader of Software Development (08/97 – 08/98)**

**Development Team Leader:** Led the design of enterprise claims and policy systems. Responsible for assembling and leading a team of five developers. Formed a design patterns study group, and applied a variety of design patterns during development of successful projects. Drove the adoption of PVCS version control software and defined practices for use.

**Lifecycle Methodologist:** Helped establish practices utilizing use cases and object modeling using OMT and UML. Partially responsible for the continual improvement of the team development effort.

**Technical Support Specialist:** Helped drive the sale of an enterprise claims system to two different professional liability carriers. Resulted in over 500K of unanticipated revenue.

#### **System Developer II (08/93 – 08/97)**

**Software Developer:** Responsible for developing and maintaining applications written in PowerBuilder. Drove adoption of enterprise frameworks.

**Deployment Specialist:** Responsible for scheduling deployment and monitoring of production applications.

### **Lakeland College (02/98 – 05/01)**

#### **Adjunct Faculty Instructor**

**Instructor:** Taught five semesters of a variety of courses including Visual Basic, Introduction to Programming, and Intermediate Algebra.

## Recent Publications

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1. K. Knoernschild, *Java Design: Objects, UML, and Process*, Addison-Wesley, 2002.
2. K. Knoernschild, "Object-Oriented Design Metrics Ensure Robust Software", [www.builder.com](http://www.builder.com), January 6, 2003.
3. K. Knoernschild, "Commonly used Architectural Patterns in Java", [www.builder.com](http://www.builder.com), October 21, 2002.
4. K. Knoernschild, "Properly Package your Java Classes", [www.builder.com](http://www.builder.com), September 24, 2002
5. K. Knoernschild, "Java Package Functionality", [www.builder.com](http://www.builder.com), August 28, 2002.
6. K. Knoernschild, "Abstract Packages Ensure Flexibility", [www.builder.com](http://www.builder.com), July 25, 2002
7. K. Knoernschild, "Build a Relationship with your Packages", [www.builder.com](http://www.builder.com), June 17, 2002.
8. K. Knoernschild, "The Open-Closed Principle", *Java Developers Journal*, vol 7, #2, pp. 40 - 46, 2002.
9. K. Knoernschild, "Modeling SilverStream Applications using UML", *SilverStream Journal*, vol. 1, #8, pp 14-18. , 2000.
10. K. Knoernschild, "Modeling Java Applications using UML – Behavioral Modeling," *SilverStream Journal*, vol. 2 #1, pp. 21-28, 2000.
11. K. Knoernschild, "Simulating Page Inheritance in SilverStream," *SilverStream Journal*, vol. 2 #3, pp. 12-18, 2000.

## Formal Education

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University of Wisconsin-Stout, Menomonie, WI

Bachelor of Science, May 1993

Applied Mathematics/Computer Science

## Current Activities

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**No Fluff Just Stuff:** Active speaker on No Fluff Just Stuff conference tour.

**Software Development Conferences:** Speaker at Software Development Conference and Expo and Software Development Best Practices sponsored by Software Development magazine and CMP media.

**Java User Group:** Active member of Madison Java User Group.