

# Peter Centgraf

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## PROFESSIONAL ACHIEVEMENTS

Major technical and design contributions to multiple software projects. (\* Lead role)

UPitt – Muscular Epidemiological Database*	Java, ICEfaces JSF, JPA, Spring, MS SQL Server
eLIMS* ( <a href="http://tinyurl.com/rjlgpharma">http://tinyurl.com/rjlgpharma</a> )	Java, Eclipse RCP, Spring, MS SQL Server
RJLG Connect ( <a href="http://tinyurl.com/rjlgconnect">http://tinyurl.com/rjlgconnect</a> )	GWT, SmartClient, Axis2, REST, Hibernate
Business Transaction Server*	Java, Eclipse RCP, JBoss, Spring, MySQL
MetroViz* ( <a href="http://www.centgraf.net/metroviz/">http://www.centgraf.net/metroviz/</a> )	VB.NET, NHibernate, MS Access, Oracle
CogTool 1.0 ( <a href="http://www.cogtool.org">http://www.cogtool.org</a> )	Java, SWT, Lisp, Subversion, Hibernate
DrJava ( <a href="http://www.drjava.net">http://www.drjava.net</a> )	Java, Swing, Eclipse, JUnit, Clover, Ant
Web Survey Toolbox ( <a href="http://websurveytoolbox.org">http://websurveytoolbox.org</a> )	Java, JSP, Swing, CVS, Tomcat, MySQL

Publication of three papers at industry conferences on human factors and cognitive modeling.

Full committer status for the Eclipse Nebula open source user interface toolkit project.

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## EMPLOYMENT

### Consultant

SDLC Partners, LLP

2/2010 – Present

Pittsburgh, PA

Technical lead for engagements with diverse clients and responsibilities, including web testing via IBM Rational Functional Tester, development of a full Java EE web app, and enhancements to a PHP web app.

### Technical Lead

RJ Lee Group, Inc.

1/2008 – 2/2010

Pittsburgh, PA

Lead developer and Scrum Master roles for an Agile team of 7 developers and testers with multiple concurrent projects for internal and external customers. Team achieved 18 major releases in 24 months.

### Software Designer/Engineer

RJ Lee Group, Inc.

1/2007 – 12/2007

Pittsburgh, PA

Development of a custom, enterprise-wide Laboratory Information Management System for internal use and commercial sale. Lead visual and interaction designer as well as system architect and lead developer.

### Java Developer

Management Services, Payroll and Insurance Group, Inc.

1/2006 – 11/2006

Mason, OH

Development of an innovative Eclipse Rich Client Platform (RCP)-based client for a custom n-tier J2EE ERP system using JBoss and Spring. Fulfilled multiple roles as user researcher, designer, architect, and developer.

### Research Programmer

Human-Computer Interaction Institute, Carnegie Mellon University

8/2003 – 8/2005

Pittsburgh, PA

Development of applications, tools, and user documentation in Java, Common Lisp, and C for Palm OS. Cognitive modeling research in the area of driver distraction, including a publicly available literature review.

### Temp. Research Programmer

Computer Science Department, Rice University

5/2003 – 8/2003

Houston, TX

Full-time development of the DrJava pedagogical development environment. Multi-platform user interface implementation, including interface improvements based on feedback from the Rice TeachJava workshop.

### Software Engineering Intern

Direct Supply, Inc.

5/2000 - 5/2003

Milwaukee, WI

Full-time summer position with year-round projects. Interaction design and software construction roles for data access applications and frameworks in MS-SQL, VB6, C++/WTL, and C#.

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## EDUCATION

### Master of Human-Computer Interaction

Carnegie Mellon University

8/2003 – 12/2005

Pittsburgh, PA

GPA: 3.50. 2 years of practical experience with interdisciplinary teams working on HCI design projects.

### B.S. in Computer Science & B.A. in Psychology

Rice University

8/1999 - 5/2003

Houston, TX

GPA: 3.25 in Computer Science, 3.31 in Psychology, and 3.20 overall.

Dual majors with a focus in Human-Computer Interaction. Course experience includes:

- Software design and implementation in Java, C, and Scheme
- Agile development techniques, e.g. UML model-driven development, unit testing, pair programming
- Design, execution, and data analysis of original research in cognitive psychology