

Julian K. Missig

interaction design + user interface design + usability analysis

jmissig@alumni.cmu.edu

2400 w el camino real, apt 1112

mountain view, ca 94040

412 716 1889

2008–Present
Apple Prototype Interaction Designer
Human Interface Devices

2007–2008
ITA Software User Interface and Interaction Designer
Airline Reservation Software
Polaris is a project ITA Software is developing to replace almost every aspect of Air Canada's booking and customer service software. ITA will be replacing software used by a wide range of Air Canada employees, from call center agents to gate agents to inventory controllers. As a part of the small User Interface Design team, I design and analyze the user experience of these applications.

2006
Carnegie Mellon Masters Capstone Project, Researcher, Programmer
Emerson Process Management: DeltaV
DeltaV is process control automation software that power plant, refinery, biotech, and chemical processing operators sit in front of and use ten hours a day on shifts. For the Carnegie Mellon MHCI Capstone Project, I created new interface displays and controls for use with the next generation of DeltaV software.

2005–2007
Apple Platform Experience Intern Software Engineer
Mac OS X Dashboard Widget Classes
Using object-oriented JavaScript, I created toolkit classes for Dashboard widgets, including a fairly advanced scrollbar class. The classes had to work well with WebKit and several other projects. Dashboard widgets can make use of these classes instead of duplicating code. These classes are included in Mac OS X 10.4.3.

2005
Carnegie Mellon Research Assistant
HCII RADAR Light Circles
The Light Circles study was an attempt to establish that changes in background (glowing) can cause parallel attentional discrimination similar to that known to occur for changes in color, motion, and to a lesser extent, size. I redesigned the experiments performed and verified the background research and theories. I implemented and ran the experiment using Macromedia Flash.

2001–2003
IBM Intern Software Engineer, Honorary Extreme Blue
Advanced Internet Technologies Group
Sash XB was an Open Source development environment in Linux (written in C++) for JavaScript-based weblications. I created an Open Source C++ library for Jabber for use with Sash XB.

1998–2005
Open Source Project Manager, Interface Designer, Programmer
Jabber/XMPP Open Instant Messaging
As part of the original team, I vetted the core XML protocol behind Jabber. It is now the IETF Proposed Standard for instant messaging on the Internet. Google Talk uses this protocol. Early on I designed, created, and managed Gabber, a popular Linux Gnome-based Jabber client. I designed the user interface using Glade and developed it with C++, STL, and Gtkmm. I regularly coordinated a dozen contributors, several dozen testers, and tens of thousands of users.

Carnegie Mellon University
December 2006
Master of **Human-Computer Interaction**

Undergraduate University Honors
May 2006
B.S. double major in **Cognitive Science**
and **Human-Computer Interaction**

Cognitive Psychology
Research Methods in Cognitive Psychology
Human Information Processing and A.I.
Cognitive Modeling
Human Expertise
Memory Phenomena and Mechanisms
Applications of Cognitive Psychology
Perception
Cognitive Neuropsychology
Parallel Distributed Processing

Communication Design Fundamentals
Visual Interface Design
Adv Visual Interface and Interaction Design
Designing for Service
Human-Computer Interaction Methods
Computer-Mediated Communication
Software Architecture for User Interfaces

Managing Software Development
Global Software Development
Organizational Communication
Entrepreneurship for Computer Scientists

Affiliations

SIGCHI • IxDA • Psi Chi National Honor Society •
Alpha Phi Omega (service fraternity) • IETF XMPP
Working Group.

Skills: Human Interface Design

Psychology background • Glade and Interface
Builder rapid prototyping • Contextual Inquiry,
Contextual Design, Heuristic Evaluation,
Cognitive Walkthrough, Think-Aloud.

Skills: Tools

Adobe InDesign, Illustrator, Photoshop, Apple
Pages • OmniGraffle, Apple Keynote • Interface
Builder, Adobe Flash.

Skills: Mac OS X / Linux Environment

C/C++ • Objective-C/Cocoa • Gnome, Gtk+,
Gtkmm • Subversion/CVS.

Skills: Web Design and Programming

HTML, XHTML, CSS, JavaScript • Object-Oriented
JavaScript and AJAX • XML and Namespaces
experience designing an XML-based protocol.

More details available at
<http://julian.missig.org/>

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org