Theo Mandel, Ph.D. User Experience Design & User Research Portfolio

theo@theomandel.com

- K12 User Research
- Access Corporation UX Design & User Research
- General Motors Co-Design & User Research
- Ricoh Printers Mobile App
- Hunter Douglas PowerView Mobile App
- PayPal UX Design
- PayPal User Research
- Pearson Education (K-12) User Research
- Freescale Semiconductor Home Page Redesign
- CoolHotNot Mobile App Design
- Zoll Data Systems Emergency Medical Services (EMS) Application)
- emsCharts Emergency Medical Services (EMS) Mobile App
- OKbridge Online Bridge Game
- Conference Presentations
- Client List (Online)

K12 - User Research

User Experience Research Consultant (2018)

www.K12.com

User Experience research consultant for K12 Corporation. K12 is the largest K-12 online education program in America. K12 provides online learning for tuition-free and virtual public schools.

Mandel conducted user research on K12's mobile app for K-12 parents to complete the application and student onboarding process.

Access Corporation – UX Design & User Research

User Experience Design & User Research Consultant (2018)

www.K12.com

User Experience design and research consultant for Access Corporation. Access provides records and information management solutions for customers in the United States, Latin America, and the Caribbean. The company offers FileBRIDGE, a document process automation platform that provides integrated records and information management solutions.

Mandel conducted user research on the FileBRIDGE web application navigation structure. He then prototyped new navigation designs. Mandel also reviewed and prototyped innovative designs for the E-Forms application for employee document review and signature workflows. The consulting work with Access is ongoing.

General Motors – Co-Design & User Research

User Experience Design & User Research Consultant (2017)

www.GM.com

www.thedrive.com/news/19331/general-motors-autonomous-vehicle-production-begins-next-year

Mandel conducted co-design sessions with car drivers on designing tablet screens to be displayed in autonomous, driverless vehicles. The goal of these screens was to enable and build trust in a driverless by passengers. He also created an introductory video to display in driverless cars.

Mandel then conducted two iterative rounds of user research on the designs and created final designs. While conducting this research, Mandel created a trust questionnaire to create a quantitative measure of a person's trust in autonomous vehicles.

Co-Design Example

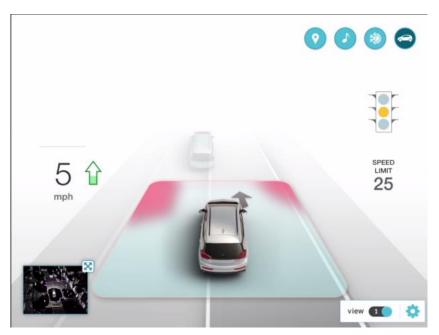


Introduction Video Screenshot



Trust Screen Designs





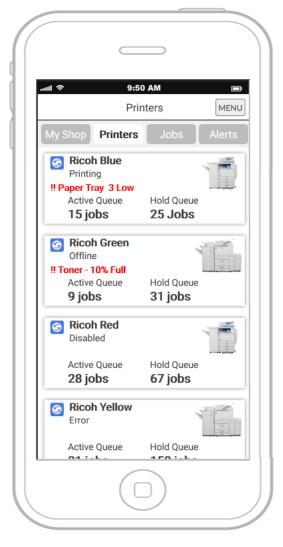


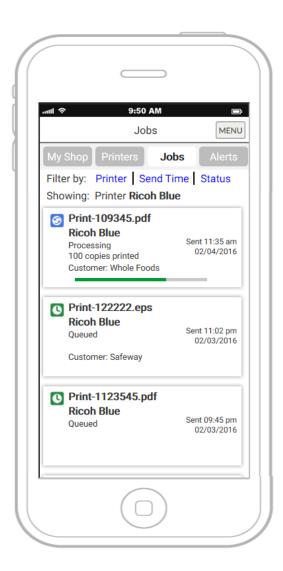


Ricoh Printers – Mobile App Mobile App Prototyping and Design (2016)

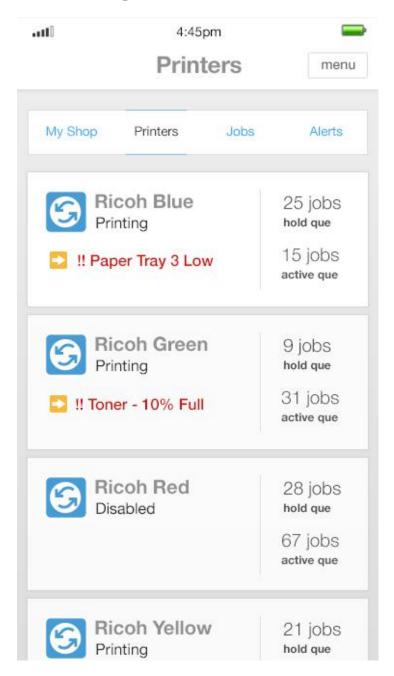
Mandel created interactive mobile app prototypes and designs for Ricoh's Large Production Printers printer management mobile app. The app is designed for large commercial printing businesses.

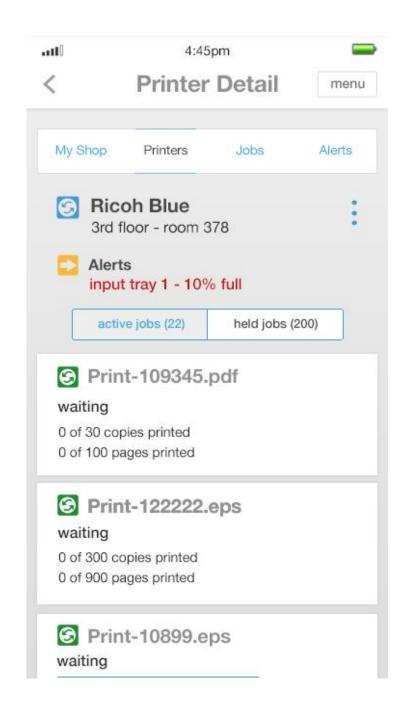
Prototype Designs





Final Designs





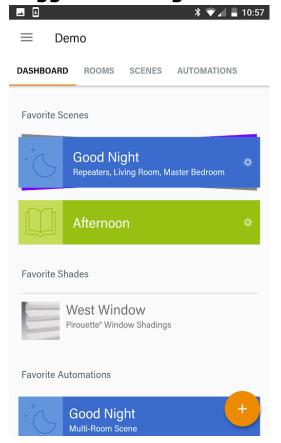
Hunter Douglas - PowerView App

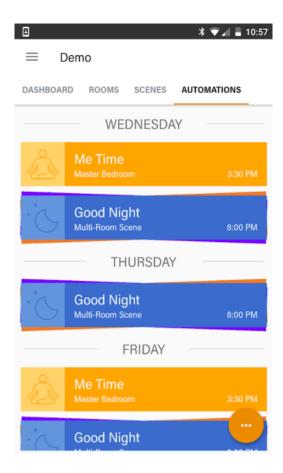
User Experience Review and App Redesign (2015)

www.hunterdouglas.com/operating-systems/motorized/powerview-motorization

Mandel conducted an expert review and redesigned the world-renowned Hunter Douglas PowerView mobile app. The app allows homeowners to adjust blinds and shades by room, time of day and light conditions. Mandel reviewed Hunter Douglas blinds and shades hardware, networking and desktop/mobile software applications and proposed new software designs.

Suggested Designs





PayPal - UX Design

User Experience Design Consultant (2010 – 2012) Scottsdale, AZ and San Jose, CA

www.PayPal.com

Member of PayPal's Scottsdale UX team tasked with redesigning PayPal's antiquated web user interface (PayPal Classic) for both consumers and merchants.

Mandel designed, prototyped and conducted user testing of conceptual designs, prototypes and beta products using Agile and Lean UX design and development methodologies.

Projects included overall PayPal site design and consumer/merchant account sign-up, setup, account maintenance, invoicing and contact management.

Designed and prototyped desktop, mobile and tablet user experiences using Axure RP as a wireframe and prototyping tool (expert Axure user).

PayPal.com - My Account (Classic)

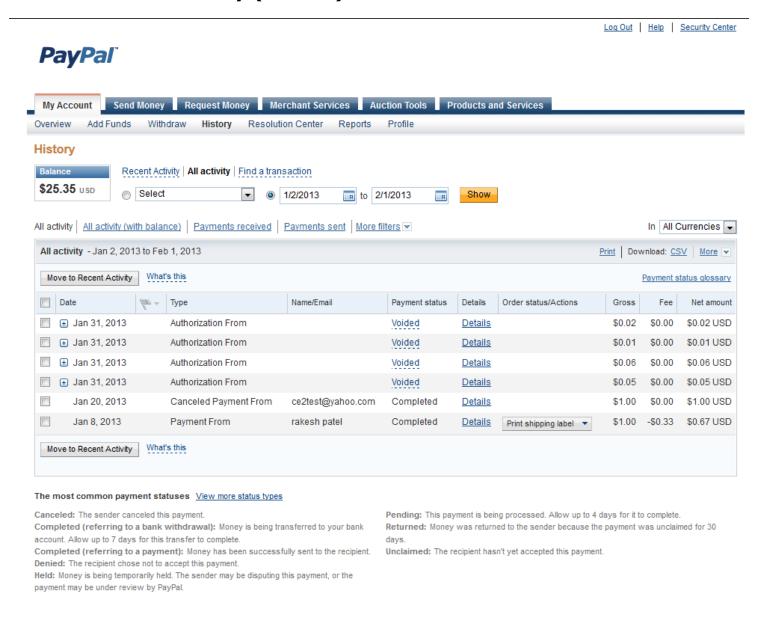
PayPal U.S. English . Send Money Request Money Merchant Services Auction Tools Products and Services My Account Add Funds Withdraw Resolution Center Profile Overview History Reports Help with this page Welcome sunee muddu Business: harmonytest52 (pbalakrishnan@paypal.com) | Account status: Verified | Status: Active Account actions Search transactions Search > My Business Setup **Next steps** > Verify a credit card Add a bank Quick links PayPal balance Options v > Policy updates Currency Balance > Tax Documents U.S. Dollar (Primary) \$25.32 USD > Refund Tutorial Mexican Peso \$0.50 MXN Australian Dollar \$0.00 AUD ¥0 JPY Yen Taiwan New Dollar NT\$0 TWD Total in USD \$25.36 USD View transactions Tools > All account activity Invoicing My Saved Buttons > Payments received Gift certificates Multi-order shipping > Payments sent Recurring Payments Virtual Terminal > Account withdrawals Fraud Management Advanced search

Log Out | Help | Security Center

Theo Mandel, Ph.D.

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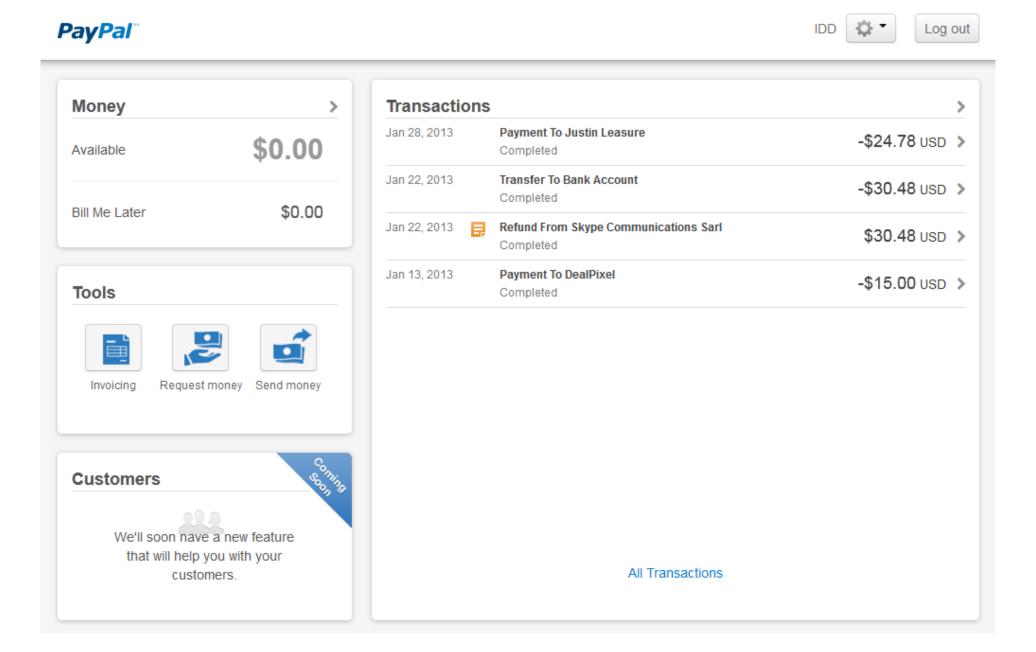
PayPal.com - All Account History (Classic)



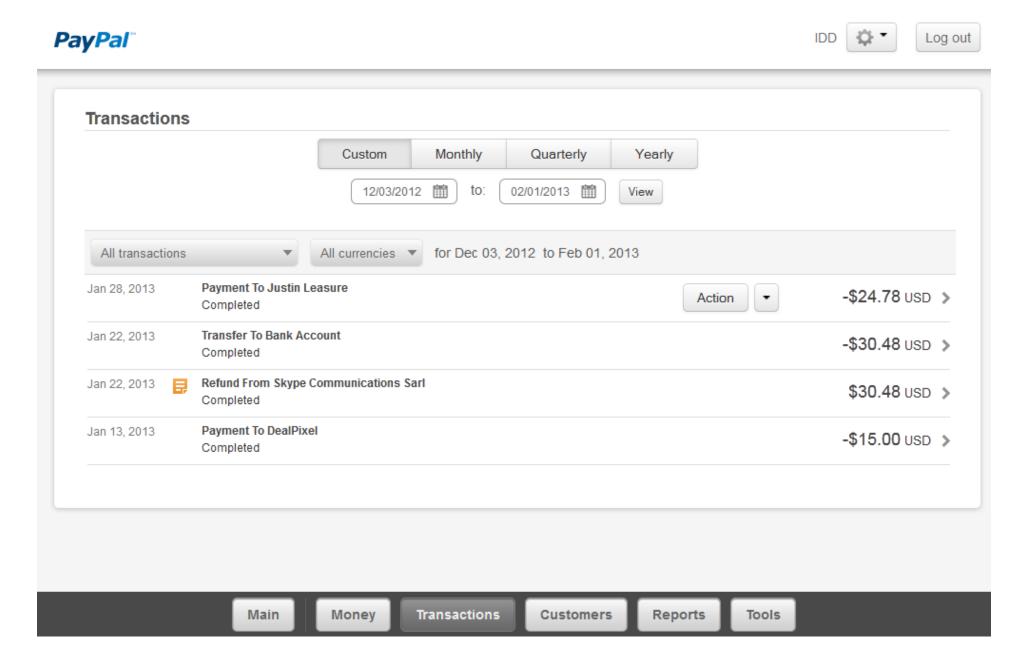
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PayPal.com - My Accounts (New Design)

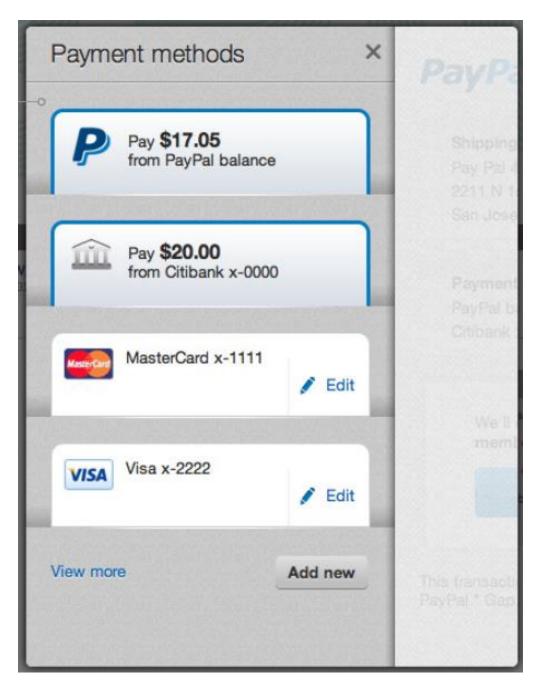


PayPal.com - All Transactions (New Design)



PayPal.com - New Mobile Designs





PayPal - User Research

User Experience – Agile User Research (2013 – 2014)

www.PayPal.com

Principal user experience researcher for PayPal's Scottsdale agile design and UX team tasked with redesigning PayPal's consumer – merchant communications regarding issues when items are bought and sold using PayPal as the payment method.

User test sessions are conducted every three weeks at the end of each agile sprint. Six consumer and/or merchant PayPal accountholders are brought in to test the current development version.

All test sessions are audiotaped and transcribed, video-taped and observation notes are collected. Task completion, completion time, errors, assists and all comments are collected. A summary report of the study results and recommendations are created and presented to the project stakeholders.

Pearson Education (K-12) – User Research

User Experience Research Consultant (2011 – 2016)

www.Pearson.com

User Experience Research consultant for Pearson Education (world's largest education company). Focus on research and evaluation of Pearson's web, tablet and mobile education products. Studies involve K-12 teachers, students, school administrators and parents.

Conducted onsite and remote research studies involving a wide range of research methodologies:

- Heuristic evaluation of applications and website
- Card sorting studies on information architecture and site navigation
- Eye-tracking studies of task performance on websites
- One-on-one usability studies in usability lab
- Group usability studies in usability lab
- Remote un-moderated usability evaluations using UserZoom and UserTesting
- Remote moderated usability evaluations using WebEx and other collaborative programs.

Designed a usability laboratory for a joint project between Pearson Education and Arizona State University.

Mandel redesigned Pearson's Chandler research facility.

Freescale Semiconductor – Home Page Redesign

User Experience Design Consultant (2013-2014)

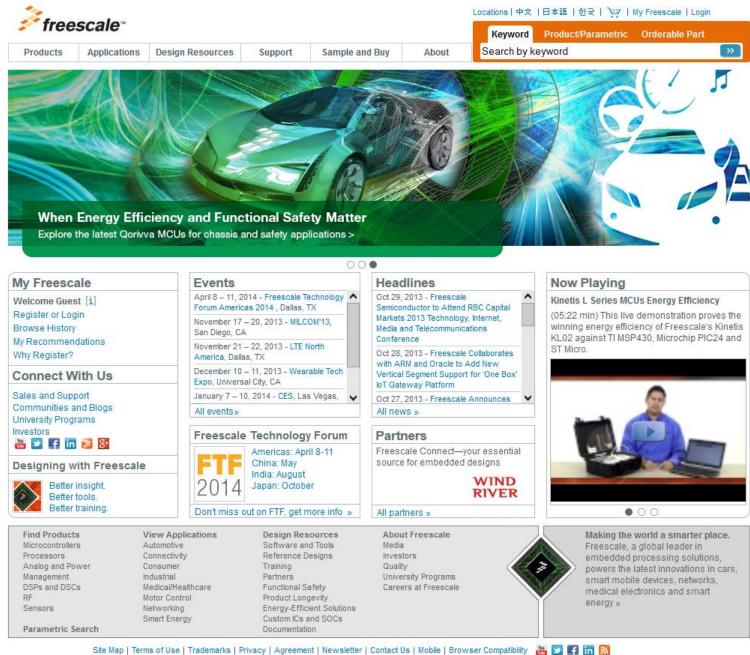
www.Freescale.com

Mandel was asked to update and redesign the Freescale Semiconductor home page main area. This was the first phase of a multi-phase redesign effort by Freescale. In later phases, Mandel will redesign the e-commerce shopping process.

Key objectives of the home page redesign were to reduce clutter, prioritize key content areas, increase font size, focus on Freescale's positioning statement and improve the banner area. Mandel created three conceptual wireframes of the home page redesign. One of the redesigns has been chosen to replace the current home page. Final designs are in the process of being developed and implemented.

NOTE: Conceptual prototypes did not focus on the Freescale color palette, graphic design or banner images. The focus was on overall home page layout and navigation design.

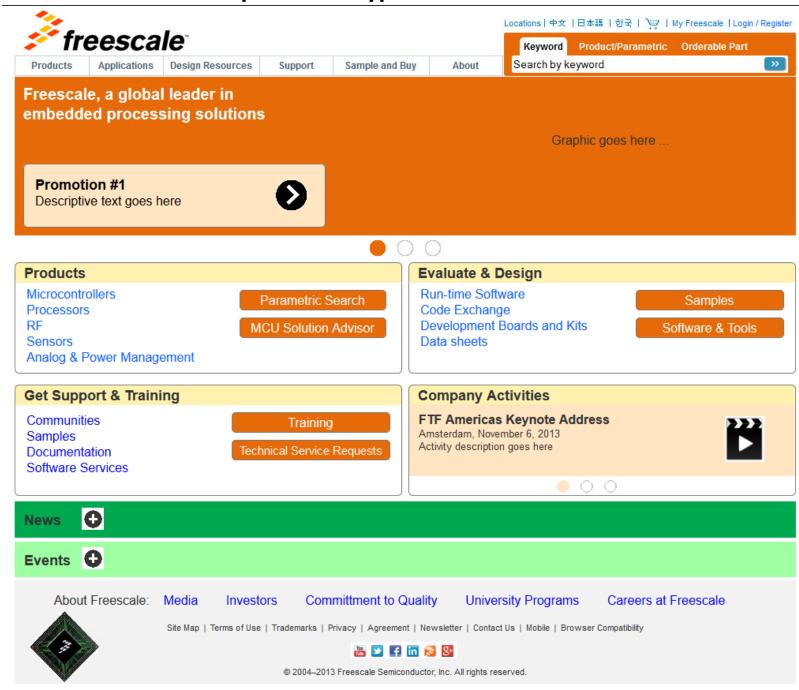
Freescale.com - Old Home Page



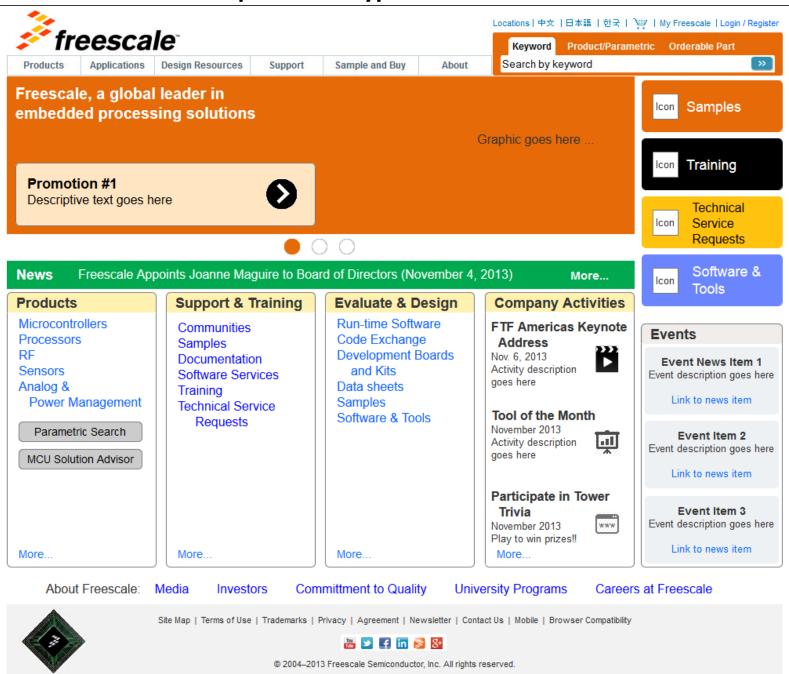
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© 2004-2013 Freescale Semiconductor, Inc. All rights reserved.

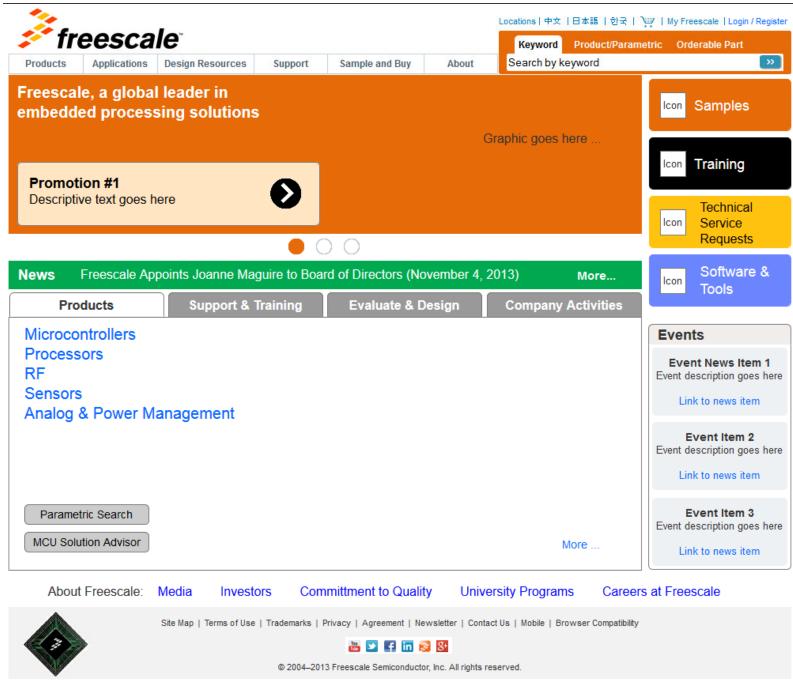
Freescale.com - Conceptual Prototype 1



Freescale.com - Conceptual Prototype 2



Freescale.com - Conceptual Prototype 3



Freescale.com - New Home Page Design



A Global Leader in Embedded Processing Solutions Learn Why



CoolHotNot.com - Mobile App Design

Co-Founder, UX Architect (2008 - Present)

www.CoolHotNot.com

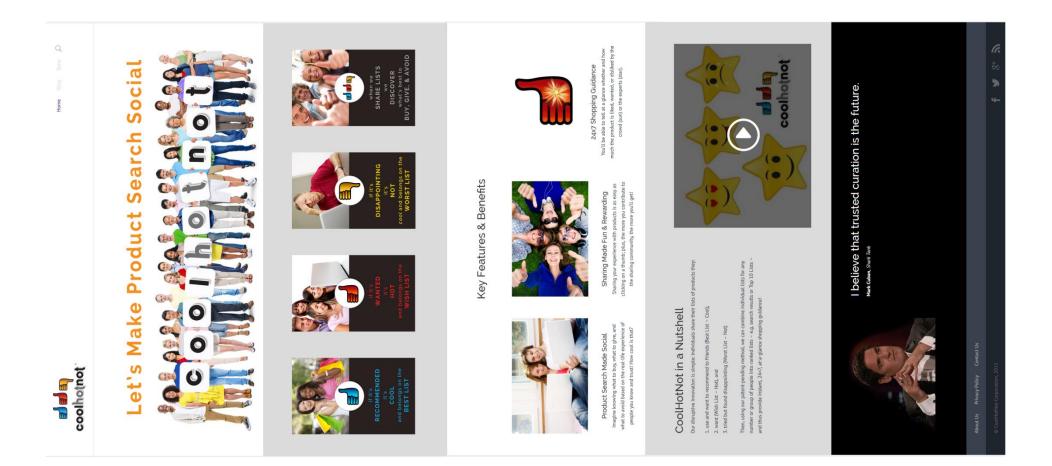
"I believe that trusted curation is the future" Mark Cuban, Shark Tank

Co-founder and user experience architect for CoolHotNot.com, a social website of consumer electronics reviews from trusted technology experts such as John C. Dvorak of MarketWatch and tech blogger Chris Pirillo. Part of a world-class team of industry tech experts, marketing experts, graphic designers and developers.

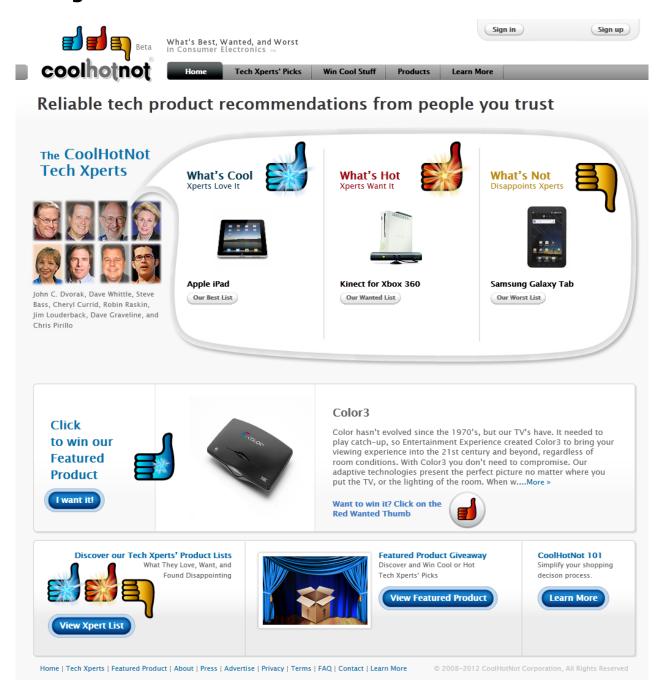
CoolHotNot's next iteration will include a membership site that fully exploits the power of social media to facilitate the sharing of real-life, personal product experience in a creative new way that lets members define the recommendations they get by category or keyword, according to the friends and experts they choose. View <u>Learn More video</u> to see upcoming social membership features.

Mandel is responsible for all user experience aspects of the website – overall design and page layout, navigation and user interaction.

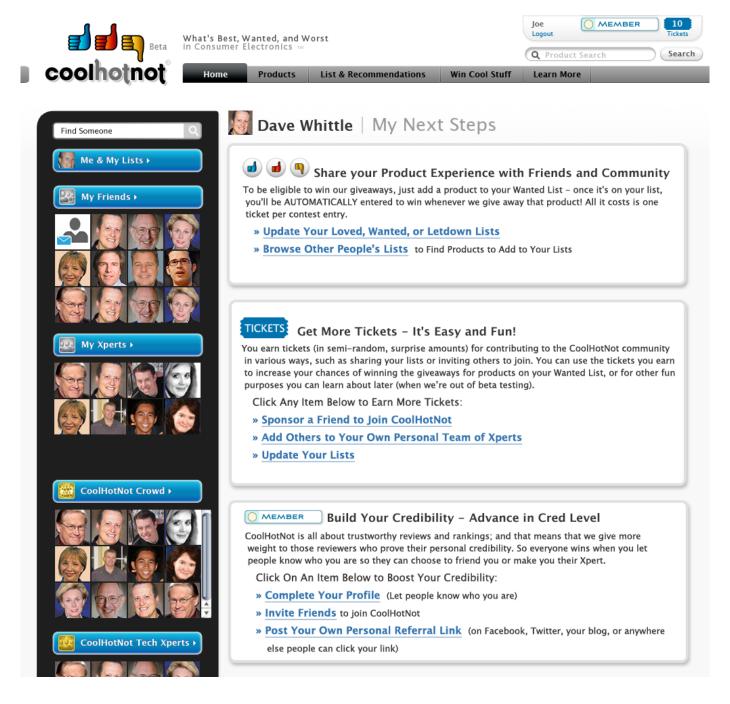
CoolHotNot Home Page – 2015



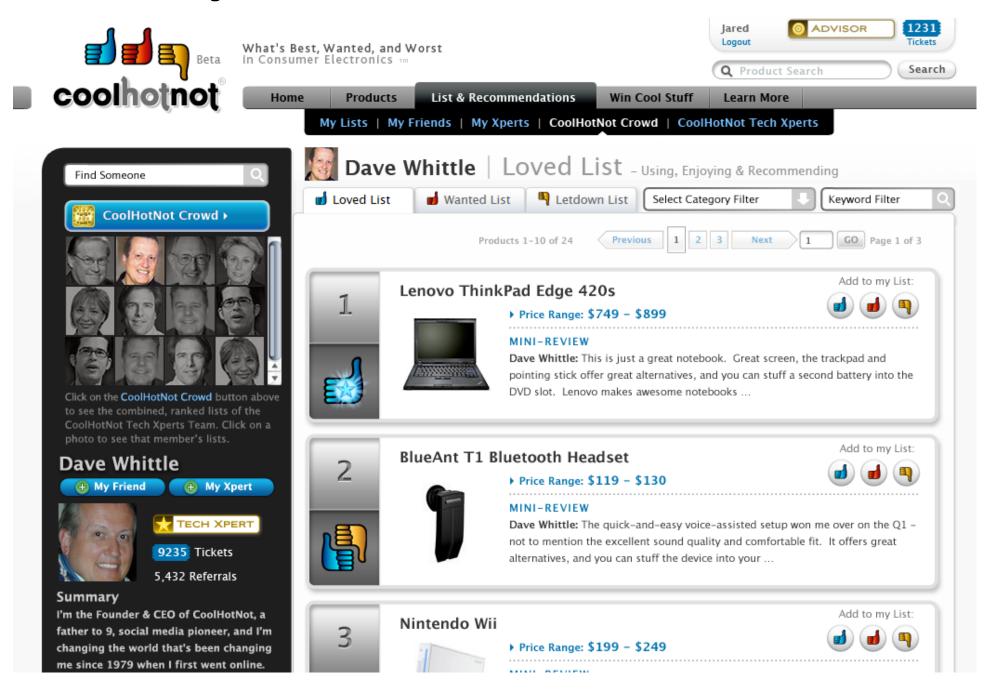
CoolHotNot Home Page - 2014



Social Site - New Member



CoolHotNot List Page



Zoll Data Systems – Emergency Medical Services Application

UX Design Consultant - RescueNet ePCR (2007)

www.ZollData.com/rescuenet-epcr

ZOLL Data Systems has been providing Windows-based Emergency Medical Services (EMS) software solutions since 1994, longer than any other vendor in the EMS market. ZOLL Data Systems is a software division of **ZOLL Medical Corporation**, one of the leading manufacturers of cardiac resuscitation devices.

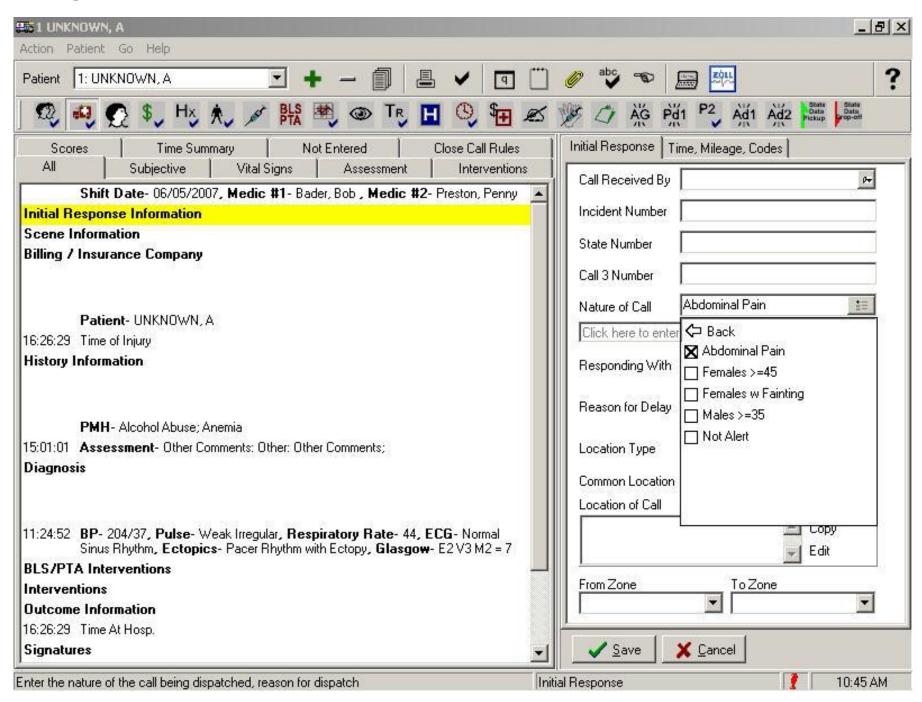
Mandel designed, prototyped and conducted usability testing of touch-screen designs for Zoll's next-generation PC touch-screen and pen-based EMS field data collection and management program, **RescueNet ePCR**. ePCR is used by EMS and Fire/Rescue ambulance teams in the field to document patient information, history, vital signs, medical and trauma assessments, interventions, and treatment during the entire patient care process up to delivering the patient to a hospital Emergency Room.

To understand how users work with the program, Mandel rode along in ambulances for four days, watching medical technicians and paramedics use the hardware and software in the field. Customers and users were intimately involved in designing the new version of the product.

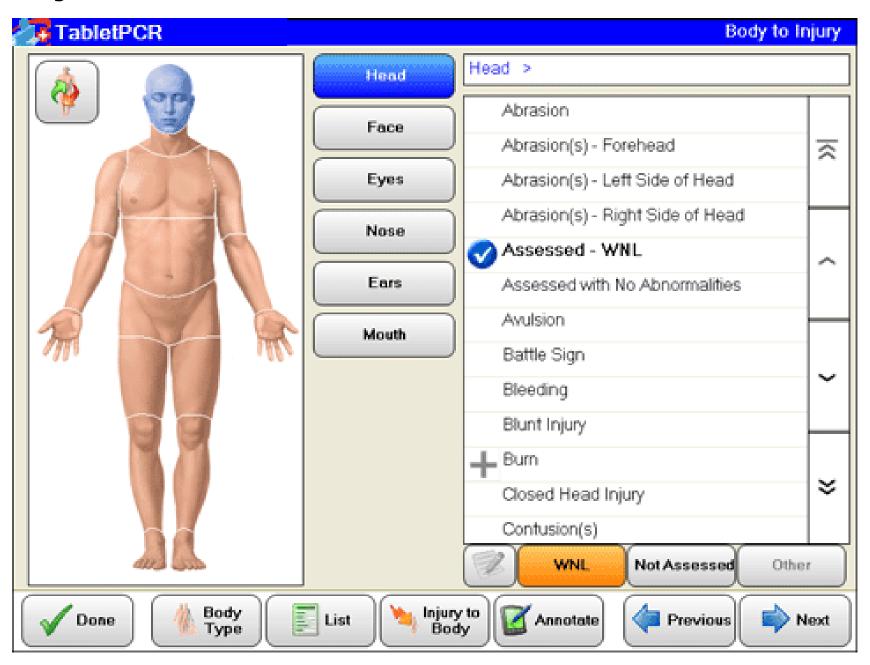
Zoll's ePCR is widely regarded as the gold standard in the EMS software industry.

Case study published in User Experience magazine, November 2007.

Old Design



New Design



emsCharts - Emergency Medical Services Mobile App

UX Design Consultant – emsCharts Mobile (2010)

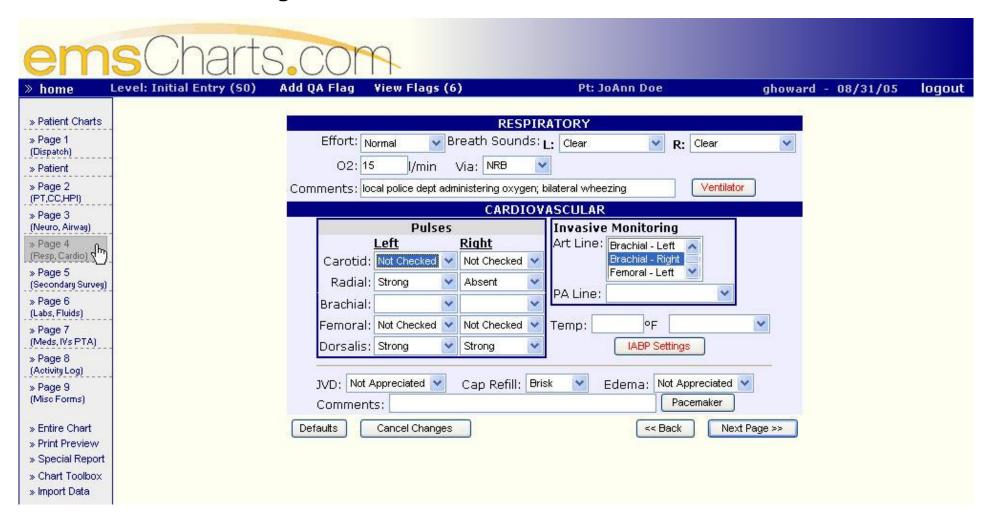
www.emscharts.com/pub/product-mobile.cfm

Established in 2003, emsCharts provides dynamic electronic data collection and management solutions for the emergency medical field. The suite of products gives air medical and ground emergency medical services mobile access to web-based data collection applications for Patient Care Records (PCRs).

Mandel designed and prototyped emsCharts' first mobile touch-screen system. Like Zoll Data Systems' **RescueNet ePCR**, **emsCharts Mobile** is used by EMS and Fire/Rescue ambulance teams in the field to document patient information, history, vital signs, medical and trauma assessments, interventions, and treatment during the entire patient care process up to delivering the patient to a hospital Emergency Room.

To understand how users work with the program, Mandel rode along in an air rescue helicopter for one day, watching medical technicians and paramedics use the hardware and software in the field. Customers and users were intimately involved in designing the new version of the product.

Old Windows-Based Design



New Mobile Designs



New Mobile Designs



OKbridge – Online Bridge Game

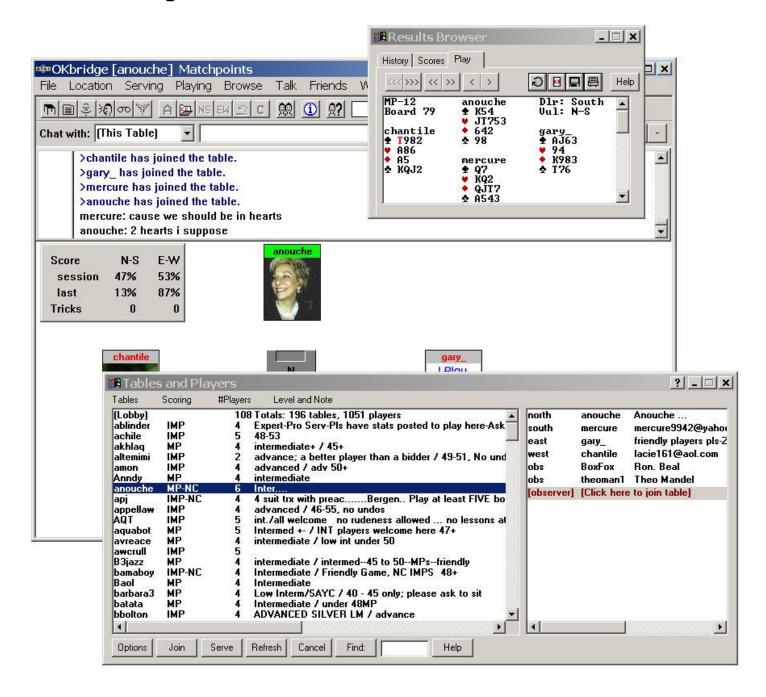
UX Design & User Research Consultant (2004 – 2010)

www.OKbridge.com

OKbridge, Inc. is an online bridge club dedicated to serving the worldwide community of bridge players by providing superior software and service. Today, OKbridge has more than 18,000 members from over 90 countries, making it the world's largest member-supported online bridge club. Mandel worked closely with OKbridge founder and development team to design and prototype the next generation of the online program. Mandel's designs focused on the needs and requirements of both expert-level and novice bridge players, through user research and usability evaluations.

- Reviewed and redesigned the site's registration process.
- Led the redesign effort to move from an old Windows-based design to a modern Java-based game design. Successfully designed the Java-based application for maximum enjoyment and usability.
- Conducted expert evaluations of the OKbridge website and online game.
- Conducted usability research with OKbridge members on the new user experience.
- Ongoing design and incorporation of new functionality in OKbridge website and OKbridge game experience.

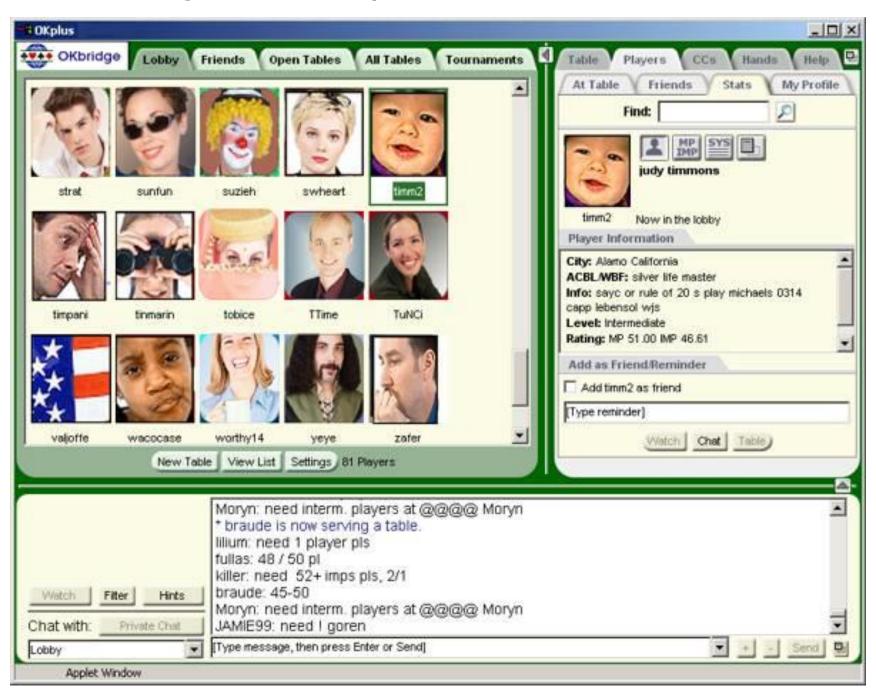
Old Windows-Based Design



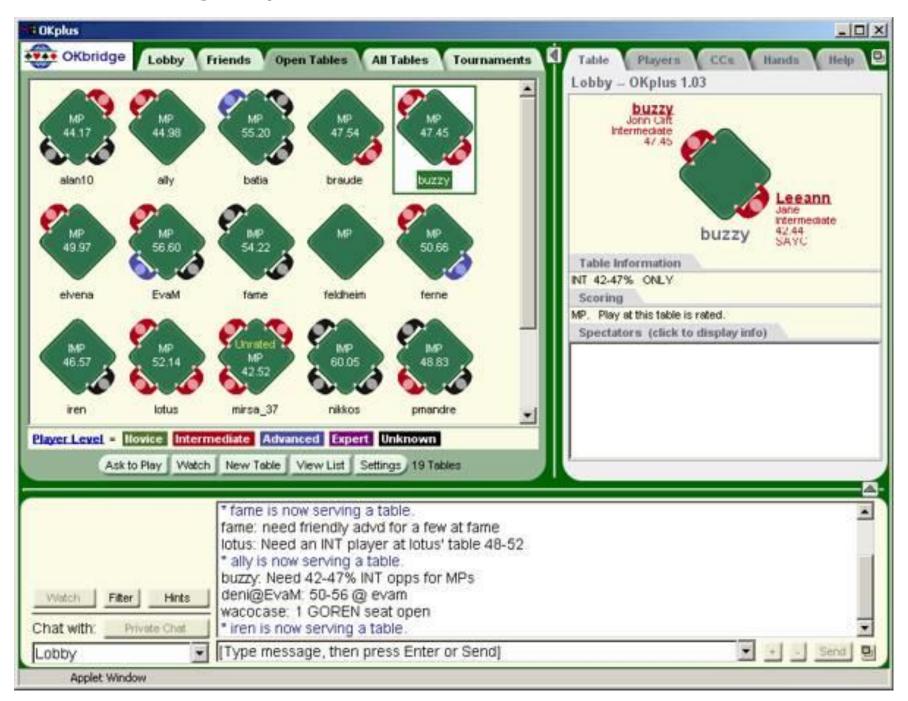
New Java-Based Design – Game in Progress



New Java-Based Design - Available Players Online



New Java-Based Design - Open Tables Online



Conference Presentations

UXPA World Conference, June 2015

uxpa2015.org/program/event/using-your-ux-super-powers-good-or-evil

www.slideshare.net/UXPA/mandel-uxpa-2015-goodevil

Theo Mandel presented at the international user experience conference in San Diego, June 2016. This conference is attended by hundreds of design and research practitioners from over 40 countries world-wide. Mandel presented his popular session titled, "Using your UX Design Super Powers for Good or Evil."

Internet User Experience Conference (IUE2014 & IUE2013)

www.iueconference.com

Dr. Mandel co-organized the 2013-2014 Internet User Experience conference in Phoenix, Arizona. The well-respected conference has been offered for the past 10 years. Over 160 people attended the conference each year in 2013 and 2014.

Mandel's popular presentations are based on his 20-years of experience in user experience design and research, beginning with his ground-breaking research and guidelines for Object-Oriented User Interfaces (OOUIs). The presentations have been posted on SlideShare.com and were selected as featured presentations and "Hot on LinkedIn" on SlideShare's homepage within hours of their posting.

SlideShare Presentations

Mandel's presentations were among the top 3% of most viewed content on SlideShare in 2013. View <u>Mandel's SlideShare presentations</u>.

Using your UX Design Super Powers for Good or Evil

• <u>SlideShare presentation</u> (over 4,000 views of all versions of this presentation)

Golden Rules of User Experience Design

• <u>SlideShare presentation</u> (over 18,000 views of all versions of this presentation)

Designing Object-Oriented User Experiences

• <u>SlideShare presentation</u> (over 5,000 views)