

Paul Mandel

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UX design lead with a background in web development and robotics.

EXPERIENCE

- Leap Motion** – Software Engineer/Design Lead – Novel human interface device **Sept. 2013 – Present**
- » Refactored desktop application to be faster, smaller, more maintainable.
 - » Led 6-person team through full design process for desktop gesture controls.
- MHCI Capstone Project** – Research Lead – Developmental math education **Jan. 2013 – Aug. 2013**
- » Identified opportunities to improve market fit of flagship product.
 - » Coordinated extensive, distributed human-centered research process.
- Rethink Robotics** – Software Contractor – Manufacturing robots **May 2012 – Aug. 2012**
- » Developed full range of automated manufacturing acceptance tests.
 - » Helped design high-level robust behavioral control systems.
- HubSpot** – Front-end Software Engineer – Inbound marketing SaaS **May 2011 – Nov. 2011**
- » Rewrote major product with large, interdisciplinary team.
 - » Redesigned setup page; increased success rate from 30% to 80%
- Elysium Digital** – Computer Scientist – IP litigation consulting **Sept. 2009 – May 2011**
- » Analyzed complex code bases and wrote custom code-analysis tools.
 - » Created custom web-based collaborative task management system.
- Olin College SCOPE Program** – Project Manager – Senior thesis **Sept. 2008 – May 2009**
- » Designing and prototyped self-contained biomimetic robotic tuna fish for ONR. Hybrid propulsion system led to additional \$750,000 grant.
- Bose Corporation** – Research Intern – Automotive suspensions **May 2008 – Aug. 2008**
- » Built low-cost vehicular velocity sensor from COTS parts, allowing more precise lateral drift measurements and smoother compensation.

EDUCATION

- Carnegie Mellon University** – Pittsburgh, PA **Graduated Aug. 2013**
Master of Human Computer Interaction
- » 12 month program; focus on NUIs and human-robot interaction.
- Franklin W. Olin College of Engineering** – Needham, MA **Graduated May 2009**
B.S. in Engineering with concentration in robotics and control
- » Recipient four-year full-tuition merit scholarship.

LEADERSHIP

- International Dance Instructor**
- » Professionally teach and compete in swing and blues dancing around United States and world. Comfortable in front of crowds and managing large groups in chaotic environments.
- Theatrical and Music Director**
- » Directed several collegiate-level theatrical productions. Coordinated multiple interest-groups to perform and excel under hard deadlines and tight budget constraints.

SKILLS

Experienced in agile development, scrum, six sigma, contextual design, user testing, A/B testing. Proficient in Javascript, Python, Photoshop, Illustrator, InDesign. Experience with Arduino, Java, C++. Fluent in current web technologies including HTML5, CSS3, D3, Backbone, Django, node-webkit. Highly creative, excellent under pressure and plays well with others.