

Gerry Chu

www.gerrychu.com/portfolio

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Education **University of Toronto**, Toronto, Canada
MSc, Computer Science (Human-Computer Interaction), DGP Lab, Dec. 2007
Advisor: Prof. Ravin Balakrishnan

Carnegie Mellon, Pittsburgh, PA
BS, Human-Computer Interaction, Mechanical Engineering. May 2006
Graduated with University Honors, GPA: 3.70

Employment **University of Washington**, *Engineer*, Seattle, WA, March 2009-
Engineering improved version of the anatomically-correct testbed (ACT) hand robot. Programming real-time robotic control software.

Hasso Platter Institute, *Visiting Researcher*, Potsdam, Germany, Nov 2008-Feb 2009
Setup new research lab. Conducted study on why pointing using touchscreens is imprecise. Advised students on interaction design projects.

Microsoft Research, *Research Intern*, Redmond, WA, June-Sep 2008
Designed interactions, visual metaphors, and conducted user studies for NanoTouch, a small mobile device with a touchpad on the back.

Microsoft Research, *Research Intern*, Bangalore, India, Jan-May 2008
Designed "featherweight" audio/touchscreen interfaces for illiterate people in India. Observational field research in eye hospital and in villages.

Robotics Institute, *Research Assistant*, Pittsburgh, PA, 2004-2006
Repaired an arm robot that is mentally controlled by a monkey. Designed, machined, and programmed a rotational haptic device.

Xerox, *Mechanical Engineering Intern*, Wilsonville, OR, Summer 2005
Designed a fixture for printhead alignment using Pro/Engineer. Analyzed stresses using Ansys. Wrote a GUI data graphing program in Matlab.

Mentor Graphics, *Web Application Developer*, Wilsonville, OR, Summer 2001
Built customized homepages for a Java web application. Examined the needs of users to design interfaces that provided each with relevant information.

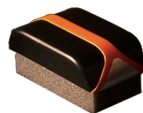
Projects



Built a **featherweight multimedia device** using audio and a touchscreen for illiterate people in India to teach eye health and sustainable agriculture. Ran user studies.



Created software prototypes for and ran user studies on **NanoTouch**, a very small mobile device that users interact with via a touchpad on the back of the device.



Created a **kit of cleaning tools** for International Truck as part of the Integrated Product Design course at Carnegie Mellon. This kit was a lifestyle product created to increase brand visibility.

Publications **Gerry Chu** and Tomer Moscovich. Haptic Conviction Widgets. In *Proceedings of GI 2009 – Graphics Interface conference*. 4 pages.

Gerry Chu, Sambit Satpathy, Kentaro Toyama, Rikin Gandhi, Ravin Balakrishnan, and S. Raghu Menon. Featherweight Multimedia for Information Dissemination. In *Proceedings of ICTD 2009 – the IEEE/ACM International Conference on Information and Communication Technologies and Development*. 11 pages. **Honorable Mention.**

Patrick Baudisch and **Gerry Chu**. Back-of-device Interaction allows creating very small touch devices. In *Proceedings of CHI 2009 – the ACM Conference on Human Factors in Computing Systems*. 10 pages. **CHI 2009 Best Paper Award nominee.**

Skills **IxD** – Think-aloud, task analysis, heuristic evaluation, cognitive walkthrough
Engineering – Prototyping, Solidworks, Pro/Engineer, Machining, Matlab
Programming – C#, C++, WPF/XAML, Java, Flash, Visio, Linux, HTML/PHP/SQL
Languages – Chinese, Spanish

Teaching Assistanceships User Interface Design, Hasso Plattner Institute, Fall 2008
Design of Interactive Computational Media, University of Toronto, Fall 2007
The How and Why of Computing, University of Toronto, Spring 2007
Capstone Design of Games, University of Toronto, Fall 2006

Activities **YokyWorks**, *Volunteer*, 2009-
Creating communication device customized for girl with motor disabilities due to cerebral palsy.

Sweepstakes, *Mechanic*, 2002-2006.
Used composite materials to help build a vehicle for a university competition.

Oregon Watersheds, *Volunteer*, 2000-2002
Volunteered for an organization dedicated to bring fish back to urban streams.

Food Drive, *Volunteer*, 2003-2005
Organized a food drive for the Greater Pittsburgh Community Food Bank.

US Citizen