

Michael Brooks

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<http://students.washington.edu/mjbrooks>

Education

PhD Student, Human Centered Design and Engineering (HCDE) 2010-Present
University of Washington

B.A. with High Honors, Computer Science, Mathematics 2006-2010
Oberlin College

Awards and Honors

Oberlin College NSF S-STEM Scholarship for Computational Modeling 2009-2010

National Merit Scholar 2006-2010

Research Experience

Research Assistant 2011-Present

Cecilia Aragon, HCDE, University of Washington

Led the user-centered design, development, and evaluation of a new biometric authentication technique based on eye movement data.

Research Assistant 2010-2011

Julie Kientz, HCDE, University of Washington

Designed and developed an interactive online baby diary as part of research on how technology could help parents track their children's developmental progress.

Undergraduate Thesis Project 2009-2010

Richard Salter, Computer Science, Oberlin College

Designed and tested prototypes of real-time visualization software as a practice tool for musicians.

Conducted interviews with musicians to assess the prototypes.

Research Experience for Undergraduates Summer 2008

Carleton College

Applied game theory to create, analyze, and simulate theoretical models of the formation of realistic social networks.

Teaching Experience

Instructor 2009

Oberlin College

Taught for-credit Experimental College course in Competitive Computer Programming, helping to prepare teams of students for programming competitions by teaching a combination of CS fundamentals, programming technique, and competition strategy.

Teaching Assistant 2007-2009

Computer Science, Oberlin College

Graded and helped with labs for the introductory CS course. Graded and developed curricular materials for a new course Game Design.

Tutor 2008-2009
Computer Science and Mathematics, Oberlin College
Tutored students in Intro. Computer Science, Data Structures, Programming Abstractions, Theory of Computer Science, and Differential Equations.

Work Experience

Software Development Intern Summer 2010
RE2 Inc.
Developed the API, system software, and demo software for DARPA's Autonomous Robotic Manipulation robot.

Software Development Intern Summer 2009
RE2 Inc.
Maintained and developed RE2's Joint Architecture for Unmanned Systems Software Development Kit.

Engineering/Design Intern Summer 2007
Tackle Design Inc.
Worked with team of engineers, designers, and NGO representatives to research and develop a sturdy, power-efficient, and inexpensive infant incubator optimized for developing countries.

Online Editor 2008-2009
The Oberlin Review
Transferred weekly news articles to the *Review*'s website. Developed new website features and developed plans for a major website redesign.

Development Skills

General: Java and Swing, C# and WPF, C++, Python

Web: PHP, HTML, CSS, JavaScript, SQL, AJAX

Tools: Subversion, Mercurial, Visual Studio, Netbeans, LaTeX, Windows and Linux systems

Service

Student Volunteer, CHI 2011 Conference Spring 2011