

Casey R Hickerson

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Education

University of Washington, Seattle WA USA

Master of Science in Information Science, March 2012

Research Areas: human-computer interaction; computer-supported cooperative work; interaction design methodology and pedagogy; information behavior in end-user programming and design

General Exam: Coping with Wicked Problems through Interaction Design Research Methods

Architectural Association School of Architecture, London UK

Master of Arts in Histories and Theories of Architecture, November 2004

Research Areas: design methodology and pedagogy; contextual urbanism, formalism in art and design

Thesis: Design Education for the Open Society: Working Methods of the Cornell Urban Design Studio

Carnegie Mellon University, Pittsburgh PA USA

Bachelor of Architecture with an Additional Major in Philosophy, May 2003

Concentrations: design theory, urban design (architecture); epistemology and value theory (philosophy)
Design Commendation for Urban Design, December 2002

Undergraduate Student in Computer Science, August 1997–December 1998

Experience

The Information School, University of Washington, Seattle WA USA

Pre-Doctoral Teaching Associate, September 2009–March 2012

Led classes, tutored students, and evaluated student work for various graduate and undergraduate courses on human-computer interaction and information architecture, including:

- Information Structures with XML (INFX 542), Bob Boiko
- Design Methods for Interaction and Systems (IMT 540), Batya Friedman and Julie Kientz
- Design and Development of Interactive Systems: Capstone (INFO 490), Andrew Ko and Wanda Pratt
- Web Technology (INFO 343), Terry Brooks
- Information Structures (INFO 330), Bob Boiko

Human-Computer Interaction Institute, Carnegie Mellon University, Pittsburgh PA USA

Research Associate II (Interaction Designer), January 2009–August 2009

Research Assistant (Interaction Designer), May 2008–December 2008

Led interaction design of a web-based intelligent tutoring system for middle-school mathematics. This system aims to provide free, individualized mathematics instruction for students in grades six through eight using tutors built with Cognitive Tutor Authoring Tools. My responsibilities included:

- performing background research and precedent studies to refine the project's scope
- generating prototypes, use cases and scenarios to identify functional and technical requirements
- working with teachers, math coaches and other domain experts to improve the user experience
- designing the site's information architecture and overall look and feel

School of Architecture, Carnegie Mellon University, Pittsburgh PA USA

Research Assistant to Professor Ramesh Krishnamurti, February 2007–May 2008

- Created generative grammars and decomposition algorithms for an intelligent system that can predict buildings' interior layouts from exterior features and contextual information, February 2007–May 2008
- Investigated methods of integrating quantitative sustainability measures, e.g. LEED and BREEAM, into building information modeling tools, February 2007–August 2007

Bohlin Cywinski Jackson, Pittsburgh PA USA

Architectural Designer, November 2005–February 2007

Contributed to spatial programming, schematic design, documentation, engineering systems coordination, material and product specification, code research and analysis for projects including:

- Schlinger Laboratory for Chemistry and Chemical Engineering at Caltech, Pasadena CA
- Ford Hall at Smith College, Northampton MA
- Science and Technology Center at Clarion University of Pennsylvania, Clarion PA

School of Architecture, Carnegie Mellon University, Pittsburgh PA USA

Research Assistant to Professor Stephannie Bartos, April 2002–August 2002

Organized material for two textbook proposals and a course on the history of Japanese architecture

Thinkmap (formerly Plumb Design), New York NY USA

Interaction Developer, May 2001–August 2001

Developed an interactive tool for visualizing relationships among Motorola's strategic investments; assisted with development of a corporate website for Bacardi

Interaction Developer, May 2000–August 2000

Developed a web-based financial account management system for Merrill Lynch; maintained Plumb Design's internal resource management system

School of Architecture, Carnegie Mellon University, Pittsburgh PA USA

Teaching Assistant, June 1999–May 2000

Led classes, tutored students, and evaluated student work for courses on computation design, including:

- Computer Modeling 2: Measure and Construction (48-125), Malcolm McCullough
- Computer Modeling 1 (48-120), Ramesh Krishnamurti
- Pre-College Computer Modeling, Aron Temkin

Institute for Complex Engineered Systems, Carnegie Mellon University, Pittsburgh PA USA

Research Assistant to Project PASIS, April 1999–August 1999

Developed a secure information sharing library for highly persistent, distributed information systems

CERT/CC, Software Engineering Institute, Carnegie Mellon University, Pittsburgh PA USA

Technical Assistant to the CERT/CC Operations Team, May 1998–October 1998

Collected and organized resources related to computer security and system infiltration techniques for the Operations Team's Vulnerability Analysis and Incident Response groups.

Abilities

Design Methods

Research & Ideation: surveys, task analysis, interviews, Contextual Inquiry, affinity diagramming, card sorting, and development of personas, scenarios, and storyboards

Production: freehand drawing and rendering, sketch and detailed prototyping, production of design patterns and style guides, digital and physical modeling, fabrication, and electronics

Design Tools

Illustration and Graphics: Illustrator, Photoshop, Visio, OmniGraffle

Typography: InDesign, TeX/LaTeX, DocBook

Spatial Modeling & CAD: AutoCAD, MicroStation, Revit, Eagle, SketchUp, 3ds max, form-Z

Data Analysis: SPSS, R

Development

Languages: C, C++, Python, Ruby, Java, Bash, JavaScript, Lisp, Standard ML

Environments: Eclipse, Emacs, GNU toolchain, Visual Studio, Xcode, Oxygen XML

Web & Application Servers: Apache, Rails, Django, PHP, Internet Information Server

Data Management: MySQL, SQLite, SQL Server, XML/XSL/XSD

Microcontroller Platforms: Atmel AVR (Arduino and avr-libc)

Miscellaneous

Spoken Languages: English (native), German (reading knowledge)

Adult and Pediatric First Aid/CPR/AED Certification, American Red Cross, 20 July 2013–2015

Amateur Radio License AE7SL (Extra Class)

Activities

Professional Organizations and Service

Association for Computing Machinery (ACM), 1998–

ACM Special Interest Group on Computer-Human Interaction (SIGCHI), 2000–

The Architectural Association [London], 2003–

Student Volunteer, ACM Conference on Human Factors in Computing Systems (CHI), 2011

Public Service

Disaster Services Technology Volunteer, American Red Cross, Seattle WA, 2013–

Auxiliary Communications Service, Seattle Office of Emergency Management, 2009–

Registered Emergency Worker, State of Washington, 2009–