Jon W. Wetzel

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Objective

A full-time position in computer science research/engineering with a focus on artificial intelligence and/or humancomputer interaction.

Education

Northwestern University (Evanston, IL)

Ph.D. candidate in Computer Science with Cognitive Science Specialization, Anticipated September 2014 Dissertation: A Framework for Understanding and Critiquing Multi-Modal Engineering Design Explanations

Massachusetts Institute of Technology (Cambridge, MA)

M.Eng. in Computer Science and Engineering, June 2007 Thesis: Face Interface: A Methodology for Experiential Learning of Input Modalities B.S. in Computer Science and Engineering; GPA 4.4/5.0, June 2006 Experience

Northwestern University Qualitative Reasoning Group CogSketch Design Coach Project (Thesis)

- Developed an intelligent coaching system to help decrease anxiety and increase skill of first year engineering students in the area of engineering design sketching
- Created a multi-modal input system that converts design explanations consisting of sketches and language into representations suitable for teleological, qualitative reasoning
- Implemented a feedback system that critiques students' explanations and provides explanations of the reasons • behind those critiques (all code for this Thesis has been done in LISP)
- In Fall 2012, measured a significant decrease in anxiety for students using Design Coach compared to a control •
- Published and presented work in IAAI (2009) and others (see homepage for full CV) •

Massachusetts Institute of Technology Media Lab **Context Aware Computing Department Research Projects**

- Designed and implemented Attention Meter which uses face detection to gauge the visual attention of a group. ٠ Awarded U.S. patent 8,594,838 for subsequent work
- Created computer vision programs for the Smart Sink, adjusting to user's height and recognizing objects inside •
- Implemented user interface for Context Aware Kitchen using sensors and a logic based system to guess the • intentions of the user and display useful information

Microsoft Corporation

Internship with Windows Live Messenger Client Team

- Implemented a new feature for the Messenger Client •
- Work included writing a developer specification and C++ code for the platform and user interface •
- Feature was selected for next release, and estimated to generate \$10M in revenue •

Dell Incorporated

Internships at Linux Development Lab

- Researched and designed an automated testing framework for Linux servers and workstations •
- Implemented framework in Python using XML-RPC
- Wrote, tested, and successfully submitted a patch for the Linux kernel (in C) to add a permanent mac address ٠ field to the network device representation

Skills Experience with C, C++, Java, Python, BASH, HTML, CSS, and Common Lisp

Awards National Science Foundation Graduate Research Fellowship 2008 - 2011

Sept. 2007 - Present

June - Sept. 2006

June - Aug. 2004, June - Aug. 2005

Feb. 2004 - June 2007