

Devon Michal Welles

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CAREER INTERESTS

I want to solve tough engineering problems with talented, creative teams in a fun and fast-paced work environment.

PROFESSIONAL EXPERIENCE

2002-2008 **Intel** Hillsboro, OR

Software Engineer- User Centered Design Group - 2005-Current

- **Lead developer:** Sarasota Health Technology project. Developed networking protocols for low-power wireless home health devices. Evaluated and recommended health technologies and protocols implemented by the Continua Health Alliance.
- **Lead software engineer:** Classmate PC Mature Market Exploration. Worked with interdisciplinary design and research team to conduct heuristic evaluations of software for education in mature markets
- **Lead developer:** Mobile Heart Monitor Project. Led a technician and junior software engineer in development of software and hardware to utilize a cell phone as a platform for data aggregation, evaluation, and user feedback
- **Product developer.** Worked on an interdisciplinary design team to conduct qualitative (ethnographic) research, design product concepts, and develop prototypes of next-generation computing products.
- **Technical Demos:** Developed and presented technology demos at internal and external conferences including the Intel Developer Conference, National Institute of Standards and Technology Healthcare Interoperability Conference, and CHI 2007.

Product Engineer – Back End Development Group - 2002-2005

- **Validation lead:** Multi-core cache testing. Led coding and validation of Multi-Core cache tests for 90nm Pentium 4 Family. Wrote pattern generation tools to enable multi-core cache testing in High Volume Manufacturing.
- **Lead developer:** Next-generation test platforms. Led automation of cache pattern development on next-generation test platforms. Designed and wrote a test program to characterize cache tests for low-voltage testing, including data retention, read disturb and deep sleep. Directed the work of two engineers and a technician in the collection and analysis of data.
- **Software developer:** Prescott Mobile. Wrote new class of low-power cache tests for Prescott Mobile products.

Summer 1999 & 2000 **G.E. Research and Development Center** Niskayuna, NY

Intern in the Computer Graphics and Systems Programming Group

- Designed and coded server software for an online automated testing system for remote software and hardware systems.
- Worked on a data visualization project for the CIA to summarize large amounts of data into a graphical format that would automatically highlight interesting topics.

EDUCATION

1997-2002 **Cornell University, College of Engineering** Ithaca, NY

- Bachelor of Science in Computer Science, *Cum Laude*, May 2001
- Master of Engineering in Computer Science, June 2002

ACADEMIC EXPERIENCE

2003-2007 **Cornell Culturally Embedded Computing Group** Ithaca, NY
Software Developer

- Developed Gossip Bot Client/Server Software.
- Worked with interdisciplinary team to design and implement system and evaluation.
- Co-authored CHI 2007 conference paper on GossipBot project: Foucault, B., Mentis, H., Sengers, P. & Welles, D. (2007) Provoking Sociability. *Proceedings of CHI2007 Conference on Human Factors in Computing Systems*, San Jose, CA.

2001-2002 **Cornell Human Computer Interaction Lab** Ithaca, NY
Computer Science Research Assistant

- Developed OWL, an image-based query refinement front-end for use by children.

TECHNICAL SKILLS

Programming Experience: C, C++, C#, Perl, Java, MySQL and OpenGL. Able to pick up new languages quickly.

Development Environments: Developed on Windows XP (Visual Studio), Linux and Unix. Worked on desktop applications, embedded applications, and cell phone applications (Eclipse).

RELATED INTERESTS

Moderator, Ars Technica Forums (Gaming Forum)

Participant, Virtual Worlds Discussion Group (with Northwestern University and UIUC)

PATENT APPLICATIONS

- Gough, C. & Welles, D. (2006) *Remote Prompting Infrastructure*.
- Gough, C. & Welles, D. (2006) *Transducer Access Point*.
- Welles, D. & Foucault, B. (2006) *System and Device for Providing Monitoring and Assisting Human Gross Motor Skills*.