Thomas Donahue

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Experience

Mar 2014–   **Robot Software Engineer**, *Aldebaran*
As a member of a small, agile (scrum) team, I design and build immersive behavior and functionality into Aldebaran's range of humanoid robots. I work on the full stack, but my passion is generating dynamic natural language dialogs that yield intuitive, productive and meaningful human-robot interactions.

Keywords: Python, Robotics, HRI, NLP/NLG, JS, HTML/CSS, C++, Scrum, Linux, Git

2012 - 2014   **Research Assistant**, *Human Robot Interaction Lab, Tufts University*
Implemented distributed notification system for the ADE middleware. Overhauled system GUIs for ADE middleware with improved efficiency and speed, as well as a simplified UX. Designed and conducted HRI studies investigating the role of remote video feeds on perceptions of robot teammates (published IROS14). Developed software for data-mining rich audio and video corpora and annotations. Designed and built web-survey platform for multiple HRI studies.

Keywords: Java, Robotics, HRI, NLP/NLG, PHP, JS, HTML/CSS, Linux, Git, SVN, LaTeX, R

2012, 2013   **Teaching Assistant**, *Computer Science Dept., Tufts University*
Maintained automated testing suite for introductory C++ course. Provided instruction to students during lab sections as well as office hours.

2010 - 2012   **Research Assistant**, *Computer-Human Interaction Lab, Bowling Green State University*
Part of a team that developed a novel, tangible password input system. Designed, built and tested an alternative UI for World of Warcraft for the visually impaired community. Helped build a series of web-tools for use in undergraduate Geology courses. Investigated the learning benefits of and tradeoffs between mouse, touch and tangible input systems.

Keywords: Java, C++, HCI, Tangible/Touch UIs, Accesibility, Windows

Technical Skills

Languages

Core: Java, Python, C++
Experienced: PHP, JS, Clojure, HTML/CSS
Exposure: C, R, SQL, Scheme, SML, Prolog, CUDA

Tools

src Control: Git, Subversion
Build: Ant, Leiningen
Editors: Emacs, IntelliJ IDEA, Visual Studio
Writing: LaTeX, Org-mode

Platforms

Linux: Considerable Linux development experience, and comfortable at the command line shell
Robotics: Extensive experience working with Aldebaran's NaoQi robotics middleware, as well as ADE – a research focused distributed, multi-agent robotics middleware. Familiar with ROS.

Education

2012 - 2014   **Graduate studies in Computer Science**, *Tufts University, Medford, MA*
Withdrew in good standing from Computer Science & Cognitive Science Joint-Ph.D. program
2011 - 2012   **M.S. in Computer Science**, *Bowling Green State University, Bowling Green, OH*
2007 - 2011   **B.S. in Computer Science & Psychology**, *Bowling Green State University, Bowling Green, OH*
Minor in Mathematics, Cum Laude