

ANDREW SABISCH

(ANDREW CORREA)

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PERSONAL STATEMENT

I am looking for opportunities to learn new and interesting skills, and to improve my abilities as a software engineer. I love solving interesting problems and mastering new software tools, frameworks, and techniques. If you are looking for a software engineer that is excited about creating solid, reliable production code, please contact me.

EXPERIENCE

eBay

August 2015–Present

<http://www.ebay.com/s/valet>

Engineer, Manager, Research Scientist. After Twice was acquired by eBay, I was called on to fulfill many diverse roles, including managing up to 7 direct reports across 2 projects and working in eBay's AI and infrastructure groups.

Twice

March–July 2015

<https://www.liketwice.com>

Full-stack software engineer. Maintained, updated, and created websites and analytics tools using several open source frameworks and libraries, including Flask (Python), Hadoop (Java/Scala), and Backbone.js (JavaScript).

Multimodal Understanding Group at M.I.T.

2010–2014

<https://groups.csail.mit.edu/mug> & <http://jamoozy.com/media.html>

Architect of a multimodal front-end to a code generation system capable of holding natural conversations about data structure manipulations and generating C code for them.

Google

Summer 2011

<https://www.google.com>

Software Engineering Intern for Results UI group. I aided a team of 20 software engineers to make changes to the Google results page during a major company-wide UI overhaul and visual unification.

Agile Robotics at M.I.T.

2008–2010

<http://www.csail.mit.edu/csailspotlights/feature3>

Lead UI researcher and engineer for a 6,000 lbs. autonomous forklift.

Topics: Robotic Planning and Control, Symmetric Multimodal Interaction, Human-Robot Interaction.

Social Code Group at U.C.I.

2006–2007

<http://www.ics.uci.edu/~wmt/socialCodeGroup/>

Worked on several projects focused on educating children via interactive museum installations.

EDUCATION

Massachusetts Institute of Technology, Cambridge, MA

2007–2014

DOCTOR OF SCIENCE (SC.D.—PH.D. EQUIV.) IN COMPUTER SCIENCE Sept. 2014

Built CoMo—a multimodal (speech & sketch) UI-component to a code synthesis system (<http://jamoozy.com/media.html>). CoMo is an early version of a white board capable of 1) engaging in technical conversations with engineers; 2) helping to brainstorm and solve problems; and 3) automating production. This system is capable of actively participating in a conversation about data structure manipulations by asking questions, drawing, and speaking. It initiates code synthesis with the Storyboard Programming Tool (<http://people.csail.mit.edu/rishabh/storyboard-website>).

MASTER OF SCIENCE (S.M.) IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE Sept. 2009

Developed general method for controlling large robotic systems with speech and sketch [2, 5]. Created UI capable of running efficiently, natively on a Nokia N810 internet tablet and communicating with a forklift via WiFi [4]. Aided the augmentation a full-size Toyota forklift [7, 10] to receive and execute remote commands safely in a normal warehouse environment (i.e., populated with humans) without disabling normal operation and control.

University of California at Irvine, Irvine, CA

2003–2007

BACHELOR OF SCIENCE (B.S.) IN INFORMATION AND COMPUTER SCIENCES June 2007

Joined research lab with 10 graduate & undergraduate students. Worked on several projects [9, 8]. Completed (optional) honors thesis facilitating development & deployment of multi-device software systems [1].

PROFESSIONAL SKILLS

Human Languages	English, German, Sign Exact English, basic French, Spanish, Japanese
Favored Programming Languages	Go, Python, Java, Ruby, C, C++, JavaScript, Bash
Tools & Software	Docker, Kubernetes, Prometheus, Terraform, Grafana, OpenStack, Vim, Eclipse, NetBeans, GCC, L ^A T _E X, Make, Sed, Awk, Tmux (& screen), Git, Subversion, Perforce, Inkscape, Apache, nginx

EXTRA CURRICULAR

“Den Mother” of Girl Scout Benefit	Organized and prepared weekly meetings. http://projects.csail.mit.edu/gsb	2009–2014
Website Programmer & Designer	Designed, created, maintained CSAIL Olympics website. http://projects.csail.mit.edu/olympics	2009–2012
Active Member of CSC (CSAIL Student Committee)	An organization that benefits CSAIL graduate students. http://projects.csail.mit.edu/student-committee	2008–2011
CSAIL Olympics Commissioner	Planned, organized, and ran CSAIL Olympics (link above).	2008–2009
Laser Tag Club President & Co-Founder	Co-founded club at UCI and organized weekly meetings.	2006–2007

ARTISTIC EXPERIENCE

(BY PROFICIENCY)

Acting.....	7 years
Tap Dance.....	3 years
Ballet.....	8 years
Piano.....	7 years
Modern Dance.....	2 years
Jazz Dance.....	5 years
Ballroom Dance.....	1 year

OTHER FACTS

Most of my family lives in Germany.
I like physics, free software, and learning new languages.
(I am currently focusing on Spanish.)
I know at least 1 word in each of 24 different languages.
I enjoy discussing morality, truth, and the nature of existence with friends.
My first 2 years at UCI were spent as a dance major.
I can whistle in 3 distinct ways.

PUBLICATIONS

- [1] Andrew Correa. Facilitating the development of software for multiple devices. Bachelor’s thesis, University of California at Irvine (UCI), Irvine, CA 92697, 2007.
- [2] Andrew Correa. Drawing on the world: Sketch in context. In *Workshop on Visual Languages and Computing, VLC ’11*, pages 256–261, August 2011.
- [3] Andrew Correa and Ali Mohammad. Deskcorder: A recorder for what happens at your desk. In *Sixth Annual CSAIL Student Workshop, CSW ’10*, pages 27–29, 32 Vassar St., Cambridge, MA, 02139, September 2010.
- [4] Andrew Correa, Matthew R. Walter, Luke Fletcher, Jim Glass, Seth Teller, and Randall Davis. Multimodal interaction with an autonomous forklift. In *Proceedings of the 5th ACM/IEEE international conference on Human-robot interaction, HRI ’10*, pages 243–250, Piscataway, NJ, USA, 2010. IEEE Press.
- [5] Andrew Thomas Correa. Drawing on the world: Sketch in context. Master’s thesis, Massachusetts Institute of Technology (MIT), Cambridge, MA 02139, 2009.
- [6] Andrew Thomas Correa Sabisch. *CoMo: a Whiteboard that Converses about Code*. PhD thesis, Massachusetts Institute of Technology (MIT), Cambridge, MA 02139, 2014.
- [7] Seth Teller, Matthew Walter, Matthew Antone, Andrew Correa, Randy Davis, Luke Fletcher, Emilio Frazzoli, Jim Glass, Jonathan How, Albert S. Huang, Jeong Hwan Jeon, Sertac Karaman, Brandon Luders, Nicholas Roy, and Tania Sainath. A voice-commandable robotic forklift working alongside humans in minimally-prepared outdoor environments. In *IEEE International Conference on Robotics and Automation (ICRA)*, Anchorage, AK, May 2010.
- [8] Bill Tomlinson, Eric Baumer, Man Lok Yau, Paul Mac Alpine, Lorenzo Canales, Andrew Correa, Bryant Hornick, and Anju Sharma. Dreaming of adaptive interface agents. In *CHI ’07 Extended Abstracts on Human Factors in Computing Systems, CHI EA ’07*, pages 2007–2012, New York, NY, USA, 2007. ACM.
- [9] Bill Tomlinson, Man Lok Yau, Eric Baumer, Joel Ross, Andrew Correa, and Gang Ji. Richly connected systems and multi-device worlds. In *PRESENCE: Teleoperators and Virtual Environments*, 2009.
- [10] Matthew R. Walter, Matthew Antone, Ekapol Chuangsuwanich, Andrew Correa, Randall Davis, Luke Fletcher, Emilio Frazzoli, Yuli Friedman, Jim Glass, Jonathan P. How, Jeong hwan Jeon, Sertac Karaman, Brandon Luders, Nicholas Roy, Stefanie Tellex, and Seth Teller. A situationally aware voice-commandable robotic forklift working alongside people in unstructured outdoor environments. *Journal of Field Robotics*, 2014.