

## Profile

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A technophile architect turned product designer focusing on empowering users through thoughtful user interfaces and experiences

## Education

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**University of California, Berkeley** – Master of Information Management and Systems (anticipated) 2016

*Relevant Coursework:* INFO 205 - Information Law and Policy (privacy, consumer protection, liability, copyright, licensing); Information Visualization; INFO 206 - Distributed Computing Applications and Infrastructure (security, computer architecture, operating systems, networking, middleware);  
*Honors:* School of Information Fellowship

**University of Michigan, Ann Arbor** – Bachelor of Science in Architecture 2009

*Honors:* Willeke Portfolio Competition Honorable Mention, Rogel Award of Excellence Scholarship, LSA Scholarship, Bill Schwartz Scholarship, Guller Young Scholarship, Robert S. Elster Scholarship, William J. Branstrom Freshman Prize (top 5% of freshman class), six semesters of honors.

## Project Highlights

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**Augmented Reality Home Siting App, Blu Homes** 2012

**Description:** Prototype allows users to see what their prospective home and views will look like on their future building site. One can switch between homes and rotate them in relation to the site to optimize scenic views.

**My Role:** Responsibilities as team leader were to collect requirements from sales people and customers, manage interface design and to define technical requirements for the 3D models that were loaded into the application. App was built using Unity and used 3D models authored in CATIA.

**3D Home Configurator, Blu Homes** 2010

**Description:** The Configurator is a 3D web-based application that allows Blu Homes' prospective homebuyers to simultaneously experience homes spatially, discover optional customizations and generate real-time pricing for their choices. The 3D models are authored in CATIA, converted through a custom-built conversion pipeline and are loaded into a web application built in Unity and Flash. The tool has allowed just a few salespeople to service thousands of leads per month. To date, Blu's customers have saved over 23,000 home configurations. The tool has been recognized by several media outlets such as Bloomberg, Venture Beat, Gizmodo and PC World.

**My Role:** Project manager and information architect. Researched stakeholder requirements, designed the UI mockups and storyboards, coordinated technical specialists, developed early configurator 3D models, defining their standards, and built the content management system from scratch.

## Employment

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**Autodesk** San Francisco, CA

*User Experience Research Intern*

2015

Responsible for organizing a centralized hub of user research resources so departments without dedicated researchers could independently teach themselves to discover their users' needs. Created usability tests and surveys to evaluate new feature hypotheses for AutoCAD, Autodesk's flagship product. Conducted one-on-one interviews to achieve in-depth understanding of user preferences as they relate to software update notifications.

**Blu Homes** Waltham, MA

*Director of Digital Tooling*

2009 – 2014

Company grew from 5 to 300 employees during employment. Eighteen months after being hired as designer, was promoted to manager, then director eighteen months after that. Empowered clients and coworkers with interactive and automation tools that made the home building process more enjoyable, efficient and accurate. Was responsible for bridging the communication gap between technologically savvy employees and non-technical management, salespeople and customers. Brought company to the cutting edge of the homebuilding industry by successfully managing the development of virtual reality home tours using the Oculus Rift, Unity and an interactive iPad app for learning about the homebuilding process.

## Technical Experience

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**Software:** Justinmind, Balsamiq, Axure, CATIA, Rhinoceros, Unity, Revit, SketchUp, V-Ray, 3DVIA Virtools, Adobe Creative Suite (Photoshop, Illustrator, InDesign, Premiere)

**Languages and Libraries:** Python, SQL, JavaScript, HTML, CSS, D3.js  
**Hardware:** Oculus Rift, Arduino, CNC Routers, 3D printers

## Publications and Speaking

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**Patent:** First inventor on building configuration patent PCT/US2012/039222 - Method, Apparatus and System for Customizing a Building via a Virtual Environment. [patentscope.wipo.int/search/en/WO2012162442](http://patentscope.wipo.int/search/en/WO2012162442)

**Speaker:** CATIA Operators Exchange 2011 Conference. Pre-Fab Home Configuration: Applications from Factory to Family