elliot Nahman

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EDUCATION

University of California, Berkeley
Master of Information Management & Systems, 2013

BA in Architecture, 2006
Minor: Ecological Design

LEED Accredited Professional

SKILLS

Programming
Python; HTML & CSS; JavaScript & JQuery; d3.js; JSON; XML;
Processing and prototyping with Arduino microcontrollers and xbee wireless radios

Research
Qualitative and Quantitative research experience: survey design, implementation, and analysis; contextual inquires; interviews; experimental research; simulations; case studies; field measurements

Design Software
Adobe Creative Suite (Illustrator InDesign, PhotoShop, Fireworks, Flash/Action Script 3); Lightroom; Axure; Balsamiq; Solidworks; Eagle PCB; AutoCAD

Expertise
Rapid prototyping; tangible design; data visualization; graphic and web design; project management; cost estimating/budgeting; statistical analysis; detail-oriented; equally comfortable working in teams and independently.

WORK EXPERIENCE

5/2012 to 8/2012

Technical Program Manager Intern; Google: Fusion Tables
Mountain View, California | http://www.google.com/fusiontables/

- Successfully completed my internship project by bringing the State of Oregon Department of Human Services on-board to host data through Fusion Tables
- Wrote Python scripts to process datasets and connect to Fusion Tables through the API.
- Developed information visualizations using Gviz charts, Google Map, and d3.js
- Developed functional prototypes using a Chrome Extension to inject scripts and html into existing pages to mock up possible features and functionality.
- Assessed and suggested features needed to support specific user-group work flows
- Developed UI mockups for new features and conceptual mockups and wireframes demonstrating the trajectory and long range goals of the product

8/2010 to 5/2012

Research Associate; Institute for the Sustainable Performance of Buildings
Berkeley, California | http://www.su-per-b.org/

- Designed software for building industry professionals about building systems, installation, and integration. Projects included: CEC Learn Green Buildings software, DOE/NIBS Weatherization training program, DHS/NIBS building design tool, and others
- Conducted parametric energy simulations using Energy Plus
- Developed scopes of work for sub-contractors; managed and reviewed their submissions.
- Provided technical advice and trajectory for projects, produced technical and pedagogical reports, and created graphic materials/assets.

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7/2008 to 8/2010,
8/2011 to 12/2011

Graduate Student Researcher; Center for the Built Environment
UC Berkeley | http://cbe.berkeley.edu/

- Conducted research on a wide variety of projects including thermal comfort, integrated buildings systems, water and energy studies, UFAD systems, and radiant systems.
- Research methods included computer simulations, field measurements using "off the shelf" tools and building custom tools, controlled chamber studies, IEQ Occupant surveys, contextual inquires, interviews, simulations, literary reviews, case studies.

4/2009 to 12/2012

TGIF Grant Recipient; The Green Initiative Fund
UC Berkeley | http://tgif.berkeley.edu/

- Received a grant of $114,000 to conduct water metering research and build infrastructure on campus; partnered with a PhD student in Mechanical Engineering, Lindsay Miller.
- Responsible for Project Management: coordinating with campus facilities (and getting them onboard and committed to the project), budgeting, cost estimating, (re)allocating funds, researching metering technologies, and hiring/coordinating undergrad assistants.

12/2007 to 7/2008

Junior Estimator; Leland Saylor Associates
San Francisco, California | http://www.lelandsaylor.com/

- Developed construction cost estimates for all phases of design and construction in collaboration with clients and members of the design team.
- Projects included public schools, residences, SF municipal water supply projects, and airports: LAX, SFO, SAC, OAK, SJC

RELEVANT COURSEWORK

Design & Prototyping

- User Interface Design and Development
- Mobile User Experience Design
- Interactive Device Design
- UI Prototyping
- Tangible User Interfaces
- Information Visualization
- IO Lab: Rapid Prototyping with web tools and services
- XML Foundations
- Web Architecture
- Drone Lab

Research & Analysis

- Survey Research
- Statistics
- Building Science Research Methods
- Architectural Research Methods
- Building Energy Simulations
- Methods of Measurement and Verification in Existing Buildings
- Energy and Society
- The Green Workplace
- Daylight Analysis
- Sustainable Water Systems
- Ecological Analysis

AWARDS AND GRANTS

- Dr. James R. Chen Award for Enhancing Information Systems, May 2013
- 1st Place: MIMS 2013 Final Project Video, May 2013
- Best Project: Interactive Device Design, Fall 2012
- 3rd Place: Mobile User Experience Design, Fall 2012
- UC Berkeley Green Initiative Fund (TGIF) Grant for 2009 and 2010 for a total of $114,000 towards the development of water monitoring infrastructure on the campus
- American Society of Heating, Refrigeration, and Air-Conditioning Engineers (ASHRAE) Golden Gate Chapter Scholarship, 2009