

EDUCATION

University of California - Berkeley

Ph.D. in Electrical Engineering and Computer Sciences May 2015
3D and 2D surface reconstruction algorithms for architectural modeling
GPA: 4.00/4.00

University of California - Berkeley

M.S. in Electrical Engineering and Computer Sciences May 2013
GPA: 4.00/4.00

Carnegie Mellon University

B.S. in Electrical and Computer Engineering May 2011
QPA: 3.91/4.00 - Dean's List
Minors in Physics, Computer Science

**WORK
EXPERIENCE**

Google, Inc.

03/2016 - Present

Senior Software Engineer

Advanced Research and Development for the Daydream Virtual Reality Team

Indoor Reality, Inc.

06/2015 - 03/2016

Chief Technology Officer (CTO)

Principal Investigator (PI) on multiple federal grants

Tech lead for algorithms, software, and hardware for rapid indoor building 3D modeling

EECS Department - UC Berkeley

01/2015 - 05/2015

Graduate Student Instructor

EE-122: Introduction to Communication Networks

Taught discussion sections, held office hours, graded homeworks/exams

Speir Technologies

01/2013 - 01/2014

Software Development Consultant

Developed demo application and 3D modeling algorithms for remote viewing medical ultrasound scanning

MIT Lincoln Laboratory

05/2011 - 08/2011

Summer Intern - Group 104: Intelligence and Decision Theory

Developed algorithms for creation of synthetic data for Synthetic Aperture Radar (SAR) CCD track-finding

Qualcomm

05/2010 - 08/2010

Software Summer Intern - QCT Modem Integration Team

Developed/automated methodology for optimizing and removing redundancies in client specs of processor builds

**COMPUTER
SKILLS**

Programming Languages: C/C++, Java, Python, BASH, SML, Basic, x86, JavaScript

Markup Languages: HTML, LaTeX, Markdown

Software: Matlab, Mathematica, Unity, Autodesk, Visual Studio, Git, SVN

Frameworks: Eigen, Boost, OpenCV, PCL, OpenGL, GLSL, Halide, Qt, Android, Google Tango, Spring, Processing, XStream

AWARDS

Awarded Best Student Paper - GRAPP 2014

01/2014

Awarded NSDEF Fellowship

09/2013 - 05/2016

Presented at CMU Meeting of the Minds

05/2011

- 1st Place Lockheed Martin ECE Undergraduate Project

- 3rd Place CIT Honors Research Poster Competition