densht@gmail.com, http://www.denniss.me 215-791-0960, Philadelphia, PA

Education

edX (see website for certificates)

Online

Drexel University
BS/MS in Computer Science (Not Completed)
BS GPA: 3.66 MS GPA: 4.0

Philadelphia, PA September 2013 - 2016

Experience

Software Architect Philadelphia, PA Lemma Inc. http://lem.ma/ March 2014 - present

- Creating an online education platform that improves upon existing systems by integrating all subjects into a graph of topics with lessons personalized by a user's performance.
- Using search and planning algorithms to personalize content and practice time per user.
- Applying symbolic computation for automatic grading and smart feedback.

Computer Vision Researcher

Philadelphia, PA

Drexel University December 2014 - January 2016

- Researched methods for multi-view stereo and material recognition.
- Experimented with MRFs, PCA, and ANN for spatial labeling and segmentation.
- Optimized code for running on large clusters using parallel processing and CUDA.

Teaching Assistant

Philadelphia, PA

Drexel University January 2014 - April 2015

- Helped students directly in debugging code and solving problems.
- Managed groups of TAs in completing grading on time and in creating assignments.
- Developed testing scripts for verifying code correctness and grading.

Projects

Personal & Open Source Contributions

- PX4 Autopilot Ported over the Crazyflie 2.0 platform to work with the autopilot. Fixed bugs in low level embedded systems code.
- MVision Created an open source real time SLAM algorithm for Android phones based on the MSCKF method (Mourikis et al)
- SymPy Created a parser for interprating LaTeX using custom grammars and heuristics.
- **FFTS** Fixed bugs in an open source FFT library for NEON/SSE machines.

Hackathons

- Dragon Hacks 1st Place Gaze and Myo controlled quadcopter interface.
- Penn Apps Made a physical game of pong with a quadcopter as a ball and phones as paddles.
- Philly Codefest Made an Android Wear handshake app for exchanging contacts.

Skills

Technologies: Android, Linux, Node.js, CUDA, ROS, Git, MongoDB, Ruby on Rails Libraries: OpenGL, OpenCV, PCL, NumPy, SymPy, jQuery, React, AngularJS, LibUSB Languages: Bash, C/C++, CSS, Go, Haskell, HTML, Java, Javascript, Matlab, PHP, Python Spoken Languages: English, Russian, Spanish