Spencer Lee

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Education	**University of Pennsylvania, School of Engineering and Applied Science,** Philadelphia, PA

Dual Degree Candidate
Master of Science in Engineering, May 2015
Bachelor of Science in Engineering, May 2015
Graduate Major: Computer and Information Science
Undergraduate Major: Computer Engineering

Cumulative GPA: 3.87/4.0

Honors: Dean's List (2010-2013), Tau Beta Pi (2012-Present), Eta Kappa Nu (2013-Present), Rachleff Scholar (2011-present)

Languages & Skills
- Java, C, C#, Python, Lua, Matlab, Bourne Shell, C++, SQL
- JavaScript, JQuery, Python flask development framework, ASP.net MVC (Ninject, Moq, Web API)
- VHDL, Verilog, Xilinx development suite, Electric, SPICE
- Git, SVN

Experience
- Intern, Web Applications Group, Internal Software, Hospital at the University of Pennsylvania Summer 2013
  - Co-developed organ tracking application for Department of Cardiovascular Surgery.
  - Programmed in ASP.NET MVC 4.0 with Ninject, Moq, Web API.
- Project Manager, Graduate-level Software Engineering, University of Pennsylvania, Fall 2013
- Teaching Assistant, University of Pennsylvania
  - Circuit-Level Modeling and Design, Fall 2013
  - Software Engineering, Spring 2013
  - Introduction to Computer Architecture, Fall 2012
  - Introduction to Analog Circuits Laboratory, Fall 2012, 2013
  - Introduction to Digital Circuit Design, Spring 2012, 2013
  - Introduction to Digital Circuit Design Lab, Spring 2012, 2013
  - Introduction to Java Programming, Spring 2011, Fall 2011
- Research Assistant, Dr. Daniel Lee, Professor in Electrical and Systems Engineering and Bioengineering, GRASP Lab, University of Pennsylvania, Summer 2011-Spring 2013
  - Performed research in locomotion stabilization of bipedal robots and spline-based path planning
  - Participant in RoboCup 2011, Istanbul and RoboCup 2012, Mexico City
    - Annual international robotics conference and competition.

Projects
- KiNaoMatics (Group of 2) - kinaomatics.blogspot.com – Embedded Systems, Spring 2012
  - A forward kinematic control engine using the Microsoft Kinect to transmit a human's joint positions to a humanoid robot.
- BevAlert (Group of 4) – PennApps, Fall 2012
  - A micro-controller and web service to alert a user via text message when a beverage is cool.
- Consumer VOICE (Group of 4) – Software Engineering, Spring 2012
  - A visually-rich, touch-intensive survey application for psychotic patients – written for Android.
- PennOS (Group of 4) – Operating Systems, Fall 2012
  - A miniature operating system built on top of Unix with a scheduler and a flat file system.
- PennChord (Group of 4) – Networked Systems, Spring 2013
  - An implementation for a distributed hash table ring written in C++ using ns3.
- PennSearch (Group of 4) – Internet and Web Systems, Spring 2013
  - A miniature search engine running on Amazon AWS complete with web crawler, indexer, PageRank using Amazon EMR, and a distributed web service running on pastry.

Leadership
- *Architechs*, Founder, University of Pennsylvania, Fall 2012 – Present
  - Mission: Encouraging hacking culture at the University of Pennsylvania
  - Hosted PennHacks, a hardware hacking competition, in Spring, Fall 2013
- *Initiation Chair,* Tau Beta Pi, University of Pennsylvania, Spring 2013 – Present
- *Member, Captain,* UPennalizers RoboCup team, University of Pennsylvania, Summer 2011 – Spring 2013
- *Rachleff Scholar,* Webmaster, University of Pennsylvania, Summer 2012-Spring 2013
- Freshman Orientation Peer Advisor and Fellow, University of Pennsylvania, Summer-Fall 2011 - 2013