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
Undergraduate Major: Computer Engineering
Graduate Major: Embedded Systems

Cumulative GPA: 3.88/4.0

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

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.

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
- 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.
- 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

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