

Zachary Rattner

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Education **B.S. Computer Engineering, Mathematics Minor:** Awarded May 2011
Virginia Polytechnic Institute and State University: Blacksburg, Virginia

- GPA: 3.90 overall, 3.92 in major (*summa cum laude*)
- Class Rank: 3 of 74

Skills

- Development experience on Windows, Linux, and Macintosh systems
- Experience with discrete math including combinatorics and graph theory
- Experience with statistics and statistical analysis of data
- Experience with Qt 4 and Android SDK
- Familiarity with bash and vim

Languages C, C++, Java; MIPS assembly, Microblaze assembly; PHP 5, Perl 5; MySQL 5, SQLite 3; CSS, Javascript, XML, (X)HTML; Verilog

Work Experience **Modem Software Engineer:** Qualcomm, San Diego, CA, May to August 2010; June 2011 to Present

- Worked on Inter-Radio Access Technology team to manage switching between GSM, WCDMA, and LTE networks
- Designed, implemented, and verified network cell ranking algorithm for LTE cell searches
- Developed C code to test, debug, and verify low-level drivers
- Re-joined the team after graduation, working on WCDMA physical layer cell reselection team

Software Developer: Koofers.com, Reston, VA, May 2008 to April 2010

- Performed feasibility study and feature recommendation presentation
- Worked on team to design and implement flashcard study tool
- Applied statistical theorems to develop new ways to present existing data
- Worked with data miners to develop a document reviewer used to manage quality control of over 150,000 documents

Entrepreneurial Experience **Founder:** Yembo.net, Blacksburg, VA, Spring 2007 to May 2009

- Designed graphical method of developing custom web sites
- Pitched concept to venture capitalists in Spring 2009

Honors and Activities

- Android/Arduino Bluetooth-Controlled Pneumatic Cannon: July 2011
Featured on Adafruit, Hackaday, Make, and Instructables
- Virginia Tech Honor Court: Associate Justice: Spring 2010 to Spring 2011
- Applied Software Engineering tutor: Spring 2010
- Virginia Tech Honor Court: Panel member: Fall 2008 to Spring 2011
- Microprocessor System Design tutor: Fall 2009
- Dean's List: Spring 2010
- Dean's List with Distinction: Fall 2007 to Fall 2009, Fall 2010
- Litton Industries scholarship recipient: 2009 to 2010