

Elie Rosen

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<http://erosen.github.com>

Employment Interest

Rutgers University has allowed me to sharpen my hardware engineering skills in these areas: chip design at the silicon logic level (VLSI), board design and layout, FPGAs, ASICs, verification, robotics and computer vision. I have been a lecturer and tutor, and am willing to relocate for a challenging job.

Skills & Projects

Programming Languages: C – 4yrs, C++ – 2.5yrs, C#, \LaTeX , MySQL, Verilog – 3yrs, x86 Assembly

Embedded Systems: Arduino – 4yrs, MSP430

FPGA, PCB, and VLSI: Altera Quartus II, Cadence (PSpice, Verilog-XL, Virtuoso), EAGLE, Multisim

Project Portfolio: Computer Vision, FPGAs, Robotics, and more at <http://erosen.github.com>

Experience

[Siemens Industry, Inc.](#)

DALLAS, TX

Electrical and Controls Automation Engineer – Intern

May '12 – Aug '12

Programmed Schneider Modicon Quantum PLC to build [Baggage Handling System \(BHS\)](#) for Minneapolis St. Paul airport • Designed [Human Machine Interface \(HMI\)](#) used for overview of BHS system health and operator controls • Created tools to generate documentation and test plans from databases with over 10,000 entries • Primary presenter of the [Factory Acceptance Test](#) to client; enabling project to enter the next stage of development

[Rutgers University, School of Engineering](#)

PISCATAWAY, NJ

Webmaster

Sept '09 – Present

Developed custom web pages and applications for departments, graduate programs, and professors along with various designs actively used across 15+ Rutgers websites

[Pool Management, Inc.](#)

WHITE PLAINS, NY

Pool Operator & Lifeguard

May '07 – Sept '09

Maintained chemical balance of pool water and prepared pools for summer use • Ensured the safety and rule compliance of pool patrons • Certifications: AED, CPR, First Aid, and Lifeguard

Awards and Achievements

Deans List (Fall 2012) • *Project Lead*, Intelligent Ground Vehicle Competition, Rochester, MI, *Second place* in Overall Design (2011, 2012) • Elmer C. Easton Scholarship (2012) • Designed web-pages for two Mayors and Common Council Members (2009) • University of Rochester Xerox Award for *Innovation & Information Technology* (2008)

Extracurricular Activities

Student Branch Chair & National Member, Institute of Electrical and Electronics Engineers (2009 – Present) • *Co-Founded*, the Academic Integrity Task Force (2012 – Present) • Rutgers University Student Linux User Group (2009 – 2011) • Rutgers Entrepreneurial Society (2009 – 2011) • *Webmaster*, Engineering Governing Council (2010 – 2011)

Community Service

Encouraged and Inspired young adults to pursue STEM related activities by showcasing and teaching robotics • *Guest Lecturer* for class on "How to Solder, Build & Program a Line Following Robot" • Lifeguard for the New York State Special Olympics • *Designed & Maintained* multiple websites including [Meals-on-Wheels of White Plains, NY](#)

Education

Rutgers, the State University of New Jersey

NEW BRUNSWICK, NJ

Bachelor of Science in Electrical & Computer Engineering

2009 – May '13

Minor: Entrepreneurship • **Cumulative GPA – 3.079** • **Fall Semester 2012 GPA – 3.583**

Relevant course work: Computer Architecture, Digital Electronics, Digital Logic Design, Digital Systems Design, Discrete Mathematics, Operating Systems, Robotics & Computer Vision, and VLSI