

## Objective

To pursue full-time employment after graduation in the fields of Hardware Design, Embedded Systems, Robotics and Electrical Engineering

## Work Experience

### **Siemens Industry – Electrical and Controls Automation Engineer - Intern (Summer 2012)**

- ◆ Program Schneider Modicon Quantum PLC to build Baggage Handling System (BHS) for Minneapolis St. Paul airport
- ◆ Design Human Machine Interface (HMI) used for overview of BHS system health and operator controls
- ◆ Spec and Create tools to generate documentation and test plans from databases with over 10,000 entries

### **Rice McVane Communications / Campus Entertainment – Microsoft Campus Representative (2011 - Present)**

- ◆ Acquire and compile comprehensive marketing research for Microsoft - directly influenced the purchase of new laptops and gaming hardware with outreach to over 2,000 students

### **Rutgers University – School of Engineering – Webmaster (2009 - 2012)**

- ◆ Web development including custom web pages for departments, graduate programs and professors along with various designs actively used across 15+ Rutgers websites

### **Pool Management Inc. – Pool Operator and Lifeguard (2007 - 2009)**

- ◆ Maintained chemical balance of pool water and prepared multiple pools for summer use
- ◆ Ensured the safety and rule compliance of pool patrons

## Skills/knowledge

- ◆ Code experience (C - 4yrs, C++ - 2.5yrs, Ladder Logic, Verilog, x86 Assembly, PHP, MySQL)
- ◆ Windows, Linux, Mac OS
- ◆ Embedded Systems (Arduino)
- ◆ PCB production (Eagle CAD, PSpice, Multisim)

## Code and Projects

- ◆ Online code and circuit board portfolio - <http://erosen.github.com/>
- ◆ Blog of current projects and experiences - <http://www.mylifeiscomputers.net/>

## Awards and Achievements

- ◆ Intelligent Ground Vehicle Competition, Rochester, MI (2011, 2012)
- ◆ Elmer C. Easton Scholarship (2012)
- ◆ University of Rochester Xerox Award for “Innovation & Information Technology” (2008)

## Education

Rutgers University, School of Engineering, New Brunswick, NJ

Class of 2013

BS in Electrical & Computer Engineering, Minor: Entrepreneurship

GPA: 3.0

Relevant course work: Computer Architecture, Digital Electronics, Digital Logic Design, Discrete Mathematics, Electronic Devices, Operating Systems and Programming Methodology

## Extracurricular Activities

- ◆ IEEE Robotics – Student Branch President and National Member (2009 – Present)
- ◆ Rutgers University Student Linux User Group (2009 – Present)
- ◆ Rutgers Entrepreneurial Society (2010 – Present)
- ◆ Engineering Governing Council – Webmaster (2010 – 2011)

## Volunteer and Community Service

- ◆ Lifeguard for the New York State Special Olympics (2009 – 2012)
- ◆ Guest Lecturer for a one-day class on “How to Solder, Construct & Program a Line Following Robot” (2010 – 2012)