



## **Eric Crosson**

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Bachelor of Science in Electrical and Computer Engineering at University of Texas - 2015. GPA of 3.0  
Interested in software development in GNU/Linux, free software, robotics, AI/machine learning, LISP, efficiency

**Classes in** creating a microprocessor, embedded systems, circuit theory, programming in C, differential equations, linear algebra, systems/signals, software design

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### **Extra Curricular Activities**

Founded FIRST Robotics Competition (FRC) team 3529, mentored FTC, FLL, Jr. FLL teams from 2009-2012

### **Computer Science UIL / Independent Study**

Founded the competitive University Interscholastic League computer science team in high school, where I educated my team in essential concepts for Java, C/C++, Perl, HTML. Also knowledgeable in Emacs/Common LISP, Ruby, Octave, BASH and assembly/C for more than a couple microcontrollers

### **GNU/Linux aficionado, Emacs appreciator**

During my free time I keep multiple servers in tip top shape with my favorite minimalist GNU/Linux distribution. Keeping systems efficient, small, and simple is a passion manifested in Arch. I'm also over two years deep into Emacs.

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### **Work Experience**

#### **Post Silicon Validation at Intel (2013 - Present)**

Manage tests to determine quality of manufactured hardware

#### **Design Verification Intern at Centaur Technology (2013)**

Modified bochs and a processor model to produce a cycle-accurate simulation of presilicon hardware capable of running automated regression tests and real-world use cases (ie: booting common operating systems)

#### **Software Engineer at ShoreTel (2012 - 2013)**

Developed a VNC client for the IP Phone team, allowing administrators to manage groups of phones remotely  
Designed and implemented architecture for efficient unit testing and contributed bug-fixes/firmware development

### **Freelance Tutoring**

Tutored high school and college students from different schools in computer science, physics, and mathematics

### **Bookkeeper for the International Brotherhood of Electrical Workers**

Oversaw inventory of the textbooks in stock, and worked with the apprentices  
Read through textbooks, audited lectures from the electricians and systems technicians

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### **Self-motivated projects**

Contributions to free software and other personal projects - <http://www.github.com/EricCrosson>  
Solar-powered smartphone case, kinetic-powered EL wire on a longboard  
Arduino/Launchpad projects using LED strips and IR signals, converting wavelength to RGB with ADC feedback  
ATTiny collar for my dog Luna, pprogramming contests in Java, C and z80 asm  
Eye-gaze projection software, cell-tracking image processing, static image background extraction, and much more

### **Active in online classes**

Autodidactic, seeking knowledge from services including OpenCourseware, Coursera, and edx. Classes taken include machine learning, neural networks, developing compilers, web intelligence/big data, algorithms II, cryptography

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Commended as a 2011 National Merit Scholar; 4.3 GPA, graduated Summa Cum-Laude  
Top 5% (33/654) of graduating high school class