

**Eric Crosson**  
6109 Shadow Valley Dr Unit A Austin, TX 78705  
(512) 222 - 9052 / [esc@ericcrosson.com](mailto:esc@ericcrosson.com) / [www.ericcrosson.com](http://www.ericcrosson.com)

**Bachelor of Science** in Computer Engineering at University of Texas 2016

**Recent classes** include embedded & real time operating systems, computer architecture, neural networks

**Interested in** blockchain, system architecture, artificial intelligence & robotics, security, formal verification

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### Extra Curricular Activities

- Self-study of blockchain technology, functional programming, infrastructure as code, formal verification
- Founding mentor to FIRST Robotics Competition (FRC) team 3529; mentor FTC, FLL, Jr. FLL teams

### Hobbyist programmer, GNU/Linux aficionado, Emacs appreciator

- Expertise in Lisp, git, Qt, C/C++, Ansible, Docker, CI, Python, Java, Perl, Bash, asm, L<sup>A</sup>T<sub>E</sub>X, documentation
  - Familiar with DevOps, BitBake, Node.js, go-lang, CMake, Octave, Haskell, VHDL, S. Verilog, ACL2, Promela
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### Work Experience

#### ShoreTel – Software Engineer (2012 - 2013)

- Created IP Phone VNC client and unit test architecture/DSL for firmware regression

#### Intel – Post Silicon Validation (2013 - 2014)

- Maintained & wrote tests to stress hardware components

#### Intel – Pre Silicon Validation (2014 - 2015)

- Created analysis engine for signals of 3<sup>rd</sup> party RTL
- Integrated DHCP model tests against project RTL

#### ShoreTel (2015 - Today)

- Architect of new dev infra and phone software
- Modernized development, testing & release processes
- Created custom Linux distro for custom hardware

#### Centaur Technology – Design Verification (2013)

- Integrated processor model with bochs to allow OS-level emulation and testing of presilicon hardware
- Profiled, optimized, debugged, and documented presilicon simulator

#### Centaur Technology – Design Verification (2014)

- Created multicore PSE36/PAE x86 bytecode generator
- Designed, implemented true LRU in System Verilog

#### IBM – Cloud Infrastructure Services (2015)

- Community work with OpenStack
  - DevOps management of public cloud offering
  - Created API to manage production accounts
  - Fostered habit of working with patent teams
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### Self-motivated projects

- <http://www.github.com/EricCrosson>
- Autonomous objective-based drone operation
- Programming contests in Java, C++ and z80 asm
- Founded competitive UIL computer science team
- Cell-tracking image processing
- Eye-gaze projection software
- 4 degree of freedom robotic arm articulation
- Static image background extraction

### Autodidactic

- Seeking knowledge from OpenCourseware, Coursera, edx, and other manuscripts
- Classes taken: machine learning, neural networks, big data, algorithms II, cryptography II, hardware security