Eric Crosson
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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, AI & robotics, security, formal verification, immutability, DevOps

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Skill set

- Expertise in Unix, git, Qt, C/C++, Ansible, Docker, CI, Node.js, Python, Lisp, Ruby, Java, Perl, Bash, LaTeX
- Familiar with golang, DevOps, AWS, BitBake, CMake, Octave, Haskell, VHDL, S. Verilog, ACL2, Promela, asm

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Work Experience

ShoreTel – Software Engineer (2012 - 2013)

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

Intel – Post Silicon Validation (2013 - 2014)

- Maintained & wrote component stress-tests

Intel – Pre Silicon Validation (2014 - 2015)

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

ShoreTel (2015 - Today)

- Architect of new dev infra and phone software
- Modernized, maintained dev, test, release processes
- Created custom Linux distro for custom hardware
- Decoupling & refactoring of legacy code

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 pre-silicon simulator

Centaur Technology – Design Verification (2014)

- Created multicore PSE36/PAE x86 bytecode generator
- Designed, implemented true LRU in System Verilog
- Formal verification with ACL2

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

Self-motivated projects

- http://www.github.com/EricCrosson/resume
- 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
- Bayesian inferencing and RNN-based prediction

Autodidactic

- Seeking knowledge from OpenCourseware, Coursera, edx, and printed manuscripts
- Recent classes: machine learning, neural networks, big data, algorithms II, cryptography II, hardware security