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Zach Isbach

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Master of Engineering in Information Assurance & Computer Engineering

[Iowa State University](#)

Master of Business Administration

[Iowa State University](#)

Education: Graduate Certificate in Information Assurance

[Iowa State University](#)

Bachelor of Science in Computer Engineering

[Iowa State University](#)

High School Diploma

[Holmen High School](#)

Languages

Perl, C, SQL, Java, PHP, Tcl, C++, HTML, JavaScript, Bash

Environments

Macintosh OS, MS Windows, Linux, FreeBSD, *NIX, TCP/IP networking, AppleTalk networking, Ethernet, WiFi, Bluetooth, Kerberos, DMX-512, 1-Wire, Arduino

Applications

OpenSSL, PostgreSQL, MySQL, Asterisk, Apache, openLDAP, Postfix, Samba, QEMU, VMWare, gcc, LaTeX, git, SVN, CVS, Perforce

Computer Experience:

I have considerable expertise in Linux, including the design and maintenance of my own distribution — [Zinux Linux](#). Zinux is based on the [Linux from Scratch](#) project, but has been greatly customized and extended for my own requirements. Most significantly, I have created an automatic build system that makes from-source installation of the entire OS a simple and speedy process. Zinux includes a complete set of standard Linux tools, a variety of Internet and network servers, and even a live CD for easy installation and emergency use.

I have also contributed patches or other code for several open-source projects including [clamdmail](#), [gmail-ldap](#), and [dovecot](#), (all in C) written several [WoW](#) addons including [AcceptDailies](#), [AutoGroupFriends](#), and [TurnInEverything](#) (all in LUA) and have completed a variety of unpublished personal programming projects such as a hybrid Bluetooth/GPS multi-user [location tracker](#) that includes both web (PHP, PostgreSQL) and BlackBerry (Java) components, and a web-enabled, multi-zone, scheduled, proximity-sensing, weather-aware thermostat (C, PHP, Perl, Bash, PostgreSQL).

My most recent personal project is a home automation system that includes 24 channels of light control, 12 audio channels, motion detection, bluetooth user controls, a web interface, and a variety of controlled and monitored devices ranging from lights to A/V equipment to the garage door opener. The system is designed to closely track user interactions and automatically adjust controlled equipment to match the current activity. The intent is to allow the user wide control of their environment without requiring them to separately understand or command the equipment in use. A demonstration is available on [YouTube](#).

2011-Present

[F5 Networks](#)

Seattle, WA

Software Engineer III

At F5 I work on the Rapid Development Team supporting and developing for current and historical versions of the TMOS platform and other F5 products. My work requires broad knowledge of the BIG-IP feature set to address customer-reported issues, and I have specific expertise with the AAM module and very old (but not yet end-of-life) product versions. I also contribute to ad hoc project teams ranging from diagnostic interfaces to security hotfixes to new procedures for developer workflow. My wide product experience also allows me to provide technical training as needed and ongoing mentoring to junior team members.

2006-2011

[Dice, Inc.](#)

Urbandale, IA

Integration Engineer

As an integration engineer for Dice I performed a variety of programming tasks, including the specification, design and implementation of both internal and external monitoring programs, web spiders to collect job postings and sales leads, and many smaller projects across almost all departments. My work was primarily in Perl, but often included projects in PHP and SQL, and sometimes in Java and C. I made daily use of many web technologies including HTTP transactions, SOAP, and JavaScript. I also provided both maintenance and new development for [ClearanceJobs.com](#) and [JobsInTheMoney.com](#), including new interactive and batch job loading interfaces via SOAP and email. In this position I supervised several part-time contractors.

2002-2011

Cynic by Trade, LLC

La Crosse, WI

President

In 2002 I created a computer consulting company to provide comprehensive technology support to small businesses. We provided computer sales and service, server, network, and end-user support, as well as custom programming, integration, and automation services — essentially the same services that an in-house IT and development staff would provide, but without the ongoing expense of full-time employees. In this position I directly managed 1 full-time and 2 hourly contractors.

	2005-2006	Palisade Systems, Inc.	Ames, IA
	Software Engineer		
	As a software engineer for Palisade Systems I contributed to the company's line of network security products, including ScreenDoor and PacketSure. I designed and coded many parts of the products' configuration and reporting interfaces in C, Perl, PHP, Flash, HTML and SQL, and assisted with testing and debugging of the products as a whole. I also designed and maintained several data tracking and integration systems for Palisade's internal use in manufacturing, marketing and accounting.		
	2003-2005	Palisade Systems, Inc.	Ames, IA
	Intern		
	In this position I contributed to the design and implementation of network security products including PacketHound, ScreenDoor, FireBlock, and SmokeDetector. I wrote and modified programs in C and Perl, both for the core network product and the user and OS interfaces. I also created and administered several databases and interfaces for customer and product tracking.		
	2002-2005	Iowa State University, Music	Ames, IA
	Systems Administrator, Webmaster		
	My primary duties in this position include the design and maintenance of a large website , computer and office technology support for faculty and staff, and administration of all departmental servers. I also oversaw the department's enterprise-integrated computing labs and their support staff.		
Work Experience:	Summer 2003	CyRide	Ames, IA
	Transit Driver		
	In this position I obtained my class B commercial driver's license and operated transit buses up to 42' in length.		
	2000-2003	Iowa State University, Horticulture	Ames, IA
	HTML Assistant		
	My primary duties in this position included the design and maintenance of a large website as well as computer and office technology support for faculty and staff.		
	Summer 2002	La Crosse Area Convention & Visitor's Bureau	La Crosse, WI
	On-Site Representative		
	My primary duties in this position included telephone and in-person assistance of La Crosse area visitors and the general public, in relation to activities, lodging, dining, and many other concerns.		
	Summer 2001	The Trane Company	La Crosse, WI
	Summer Engineer		
	In this position I was a member of the control systems design team for a new air conditioner control platform. My primary duties included drafting and execution of verification plans for both software and hardware components of the control system.		
	Summer 2000	The Trane Company	La Crosse, WI
	CenTraVac Checker		
	In this position I was a member of the CenTraVac production team. My primary duties included locating and transporting all CenTraVac components into the assembly room.		
	1999-2000	Wal-Mart	Onalaska, WI
	Floor Clerk		
	My primary duties in this position included sales, merchandizing, and customer assistance.		
	1998-1999	Happy Joe's	Onalaska, WI
	Pizzamaker		
	In this position I prepared and served pizzas and other foods, and performed various cleaning duties.		
	1997-1998	Apac Teleservices	La Crosse, WI
	Customer Service Representative		
	In this position I was a member of several phone sales and customer service teams. My primary duties included sales, data entry, and customer assistance.		
	1996-1997	Lodestar Publications	Holmen, WI
	Office Assistant		
	In this position I performed various clerical duties, including typing and proofreading, and helped support their office technology.		

2012-Present [FIRST Robotics](#) Seattle, WA

Mentor

FIRST Robotics is an organization with a mission to "inspire young people to be science and technology leaders". I work as a mentor for team 4030 at Ingraham High School, which participates each year in a competition involving robots. The details of the competition change each year, but typically robots weigh over 100 pounds, stand several feet tall, and move both independently and under remote control around an arena about 30' x 60'. Students are responsible, under the supervision of mentors, for the design and construction of the entire robot including mechanical and electronic systems, control software, and user interfaces; some basic elements are provided, such as a computer with the necessary interfaces to allow connection of sensors, motor controllers, and other devices, but all implementation details are open to the student team. As a mentor I specifically supervise the software and electrical systems.

Volunteer Experience:

2012-Present [Court Appointed Special Advocate](#) Seattle, WA

CASA

As a CASA I provide direct advocacy for abused and neglected children in the family court system. After a child enters the dependency process, wherein they have generally been removed from their parent's care, I am assigned by a judge to investigate the circumstances of a child's life and make reports and recommendations to the court with respect to the best interests of the child. In my local jurisdiction children under 13 are not represented in family court — only their parents and the state have lawyers available — and as a CASA I work to ensure the child's interests are represented in these court cases.

Awards & Activities:

- [National Merit®](#) Scholar, 2000
- Member of [IEEE](#), 2001-2003
- Member of the [Iowa Statesmen](#), 2000-2004
- Member of the Iowa State University Hockey Pep Band, 2002-2008

Employer References:

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