David Ljung Madison

Accomplishing the impossible, on a deadline

415-341-5555   hire@DaveSource.com   Silicon Valley, CA

CAREER SUMMARY

CPU verification expert who can take on large verification tasks as well as toolchain creation.

SKILLS

Computer Languages

Multi-linguistic: Ruby, Perl, C, Java, Verilog, SystemVerilog, assembly, etc..

I often become a/the ruby/perl resource wherever I work.

Self-starter and capable of writing everything from tools to testbenches to test generators.

Breaking things

I often use things in new and interesting ways, this is what sets me apart as a verification engineer. I break and post bugs in almost every tool I've used, including established tools such as compilers, shells, linkers, assemblers.

ACCOMPLISHMENTS

Created entire custom verification toolchain for multiple companies.

Invented an original formal verification technique which went far beyond any industry standard and found all bugs in tested blocks in pre-silicon, see:
http://DaveSource.com/Successes/Formal-Blocks/

Have taken ownership of verifying a complete CPU at multiple companies.

Rewrote an entire post-silicon debug toolchain months ahead of schedule at a savings of $3 million per day according to corporate calculations.

Specialize in creating state-of-the-art code generators such as a highly sophisticated reverse code packer for a custom VLIW CPU.

Accomplished at writing Directed-Random testbenches which provide over 95% of coverage.

Creator of shareware tools including 'album,' the world's #1 CLI album generator

EMPLOYMENT/EDUCATION HISTORY

May 2015 –	Jan 2016	*Bluechip Systems*	Verification Consultant
Feb 2007 –	Dec 2013	*iCelero, LLC / 3Plus1 Tech*	Director of Verification
Jul 2002 –	Present	*DaveSource Consulting*	Consultant / Owner
Jan 2000 –	Jul 2002	*Transmeta Corp*	CPU Verification Engineer
Jul 1998 –	Jan 2000	*SandCraft, Inc*	CPU Verification Engineer
Aug 1994 –	Jun 1998	*VLSI Lab, Hewlett-Packard*	CPU Verification / Debug
Aug 1991 –	Present	*MarginalHacks.com*	Programmer / Owner
Aug 1989 -	1994	*UW – Madison*	Computer Engineering / Computer Science (GPA 3.0)

RECOMMENDATIONS

"David is an extremely capable engineer. He has great ideas, and the implementation skills to quickly put them into practice."
> - Brett Coon, Technical Director @ Transmeta

"Code and (good!) ideas flow from David like water from a spring... he'll deliver way beyond what you thought possible."
> - Andrew Allen, Sr Logic Design Engineer @ SandCraft

"He gets the job (freaky complex verification kind of a job) done on-time even when we have been in severe shortage of time and resources."
> - Amir Zarkesh, CEO @ 3Plus1, EVP Engr @ iCelero