

Chris Jacobi

jacobi@acm.org

Software Architect and Principal Engineer

If your company makes this world a better place, even only a little bit;
If your software enhances the state of the art,
if you think I could make a substantial difference,
I would like to work for you.

Skills

I have a passion for architecting large, complex, technical software systems. I have experience with programming language systems, operating systems, distributed systems, software anti-tampering and don't mind adding more to this list. My systems and API designs are highly regarded by client programmers.

Work Experience

At Arxan (Arxan Defense Systems & Arxan Inc; 2004-2010; Principal Engineer) I made significant contributions to software anti-tampering. In particular my designs and implementations include product architecture, analysis of binary programs, synthesis of code, PowerPC machine model, obfuscations and protection primitives (called software-guards).

Have you ever debugged large multi-threaded Ada embedded applications on a PowerPC multi-processor after the binary code has been obfuscated using hundreds of thousands of substitutions and transformations? The other guy still works for Arxan!

At Xerox PARC; 1983-2000; Member of Research Staff II, (Computer Science Lab) my main contributions were in operating system aspects, compiler, language implementations, ubiquitous computing, distributed systems, user-interfaces, including consulting and trouble shooting for business units.

For the Integrated Design Lab (also Xerox PARC) I conceived an interactive VLSI design editor, major aspects of the CAD system, tool integration down to the design database and mask generation. I designed a little custom chip, just enough hardware to know that my real skills are in software.

At the Swiss Federal Institute of Technology (ETH) I worked on language design, compiler, instruction set architecture, debugging and window systems.

Education

PhD in Computer Science Swiss Federal Institute of Technology (ETH).

I have learned something on every project I worked on.