

Chris Jacobi
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Entrepreneur and Software Architect

My company White Hawk Software will make a difference in the world by preventing cyber criminals from hacking your code.

Skills

As CTO I have learned the black art.

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

I founded White Hawk Software in 2010, incorporated in 2015 and still am CTO.

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 included 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 multiprocessor after the binary code has been obfuscated using hundreds of thousands of substitutions and transformations? The other guy who had access to the same good tools was a founder.

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 at 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 small custom chip, just enough hardware to know that my real skills are in software.

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

Education

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