

## Qualifications

- Large project/system architect/engineer combining software, hardware and graphic design skills.
- More than 27 years of computer-related experience.
- More than 21 years as a developer on the Macintosh platform.
- Master of object-oriented programming techniques and dominant languages.
- Designer and programmer of numerous commercial software packages.
- Human interface (GUI) specialist, with graphic arts skills.

## Technical Expertise

Minor skills have been excluded for the sake of brevity.

<b>Platforms</b>	Apple Macintosh, System 1 to OS X, Developer for 21 Years
<b>Languages</b>	C, C++, Objective-C, XHTML, CSS, PHP, Assembly
<b>Frameworks</b>	Cocoa, Carbon, PowerPlant, I/O Kit, OS X System Frameworks
<b>Concepts</b>	Real-Time Systems, Data Acquisition, Zero-Conf Networking, OOD, Complex Data Structures and Object Persistence, Multithreading, Multitasking, Distributed Objects, QuickTime, Usability Testing, Quality Systems (ISO)
<b>Hardware</b>	USB, IEEE-1394 (FireWire), Microcontrollers
<b>Software</b>	CodeWarrior, Xcode, CVS, Illustrator, Photoshop, InDesign

## Professional Experience

### Independent Contractor, Software Engineer/Architect

Ogham Stone, Oakridge, OR  
2005–Present

Ogham Stone is a small software development and consulting company founded in 2005. It's focus is on high quality software for the Macintosh.

### Chief Software Architect (from 1997) Director of Software Engineering

Electrical Geodesics, Inc., Eugene, OR  
10.5 Years • 1994–2004

Electrical Geodesics is a leading designer and manufacturer of dense-array EEG systems for medical and research applications.

- Responsible for all software architecture, application design, data structure design and human interface.
- Designed software look and feel.
- Led software development under a quality system.
- Developed 95% of code base.
- Acted as hardware engineering liaison; informed and directed hardware and software interaction.
- Wrote drivers and microcontroller code for USB amplifier.
- Documented and defended future software direction.
- Received customer acclaim for product design, stability, ease of use and aesthetic appeal.

### Senior Applications Programmer

Cooke Publications, Ltd., Ithaca, NY  
3.5 Years • 1990–1993

Cooke Publications was a company that was spun off from Cornell University as a vehicle for the further development and marketing of scientific and educational software for the Macintosh.

- Conceived, designed and wrote MathWriter 2.0, a scientific/technical word processor.
- Maintained codebase and products adopted from previous work at Cornell University.

### Consultant/GUI Engineer

ITHACO, Ithaca, NY  
1.2 Years • 1988–1989

- Assigned to designing and coding a virtual front panel interface for a PC-based lock-in amplifier.
- Completed project on time and within budget.
- Received recognition for innovative and bullet-proof design.

### Applications Programmer

Cornell University, Ithaca, NY  
4.7 Years • 1985–1990

- Wrote MathWriter 1.x, a WYSIWYG equation editor.
- Wrote MacPoisson and MacElastic, software for 2-D finite element analysis.
- Wrote MacRegistrar, a student gradebook database.
- Wrote additional small Macintosh software packages.

### Computer Programmer

Cornell University, Ithaca, NY  
3.0 Years • 1982–1985

- Built a Controlled-Atmosphere Cabbage Storage system using a STD bus computer. This FORTH-based data acquisition and monitoring system managed gas and temperature levels.

- Wrote a FORTRAN interface and built hardware for controlling an INSTRON Universal Testing Machine.
- Improved and maintained a BASIC program on an APPLE II for computing finite element analysis of structural deformity and fluid flow.

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## Education

B.S.C.S., Calvin College, Grand Rapids, MI, 1985

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## Other

- Date of Birth: December 17, 1963.
- Married for more than 17 years; two daughters.
- Accomplished drummer, guitarist and performing singer/songwriter.
- Active in local theater; acted in more than six plays.
- Enjoys walking, particularly on British footpaths.
- Working towards reaching 200,000 miles on his Sportster.