

# Lee Carver

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## Curriculum Vitae

### Research Interests

Compositional program synthesis, aspect-oriented software development, software development environments, user interface design, replication, practical deployable tools.

### Professional Summary

23 years of experience in software development. Extensive knowledge in communications, software development tools, and programming languages.

### Education

University of California, San Diego  
June 2002  
Master of Science in Computer Science  
Concentration in Software Engineering

University of California, San Diego  
June 1981  
Bachelor of Arts in Computer Science  
Physics and Economics minors

### Selected Publications

L. Carver, [Building a Real-World Application with Aspect-Oriented Modules and Hyper/J](#), Master's thesis, University of California, San Diego, Department of Computer Science and Engineering, June 2002.

L. Carver, [Composition Behaviors for Application Construction](#), Workshop on Aspect Oriented Design, *First International Conference on Aspect Oriented Software Development (AOSD'02)*, 2002

L. Carver, [Using Brackets to Corral Jumping Aspects](#), Workshop on Advanced Separation of Concerns, *Conference on Object-Oriented Programming, Systems, and Languages (OOPSLA'2K)*, 2000.

L. Carver, [Combining Selector-Guarded Blocks: Difficulties From the Option-Processing Task](#), Workshop on Aspects and Dimensions of Concerns, *European Conference on Object-Oriented Programming (ECOOP'2K)*, 2000

L. Carver, [A Practical Hyperspace Application: Lessons From the Option-Processing Task](#), Workshop on Multi-Dimensional Separation of Concerns in Software Engineering, *International Conference on Software Engineering (ICSE'2K)*, 2000

L. Carver and W. G. Griswold, [Sorting Out Concerns](#), Workshop on Multi-Dimensional Separation of Concerns, *Conference on Object-Oriented Programming, Systems, and Languages (OOPSLA'99)*, 1999

### Experience

Owner/President  
Pnambic Computing  
1995-Present

- Software development tools and consulting.
- Internet solutions for small businesses.

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| <p>Intern<br/>IBM T. J. Watson<br/>Research Center<br/>2000</p>               | <ul style="list-style-type: none"> <li>• Research intern with the Software by Composition group. Developed <code>bracket-from</code> extensions to Hyper/J™ Java composition tool.</li> </ul>  |
| <p>SDE/Workgroup<br/>Applications<br/>Microsoft Corporation<br/>1992-1995</p> | <ul style="list-style-type: none"> <li>• Developer on Exchange. Responsible for server store, including FastTransfer, a client-server batch transfer protocol for mail messages. Ported Exchange Server from X86 to Alpha and MIPS architectures.</li> <li>• Responsible for programmability in forms routing package. Integrated Object Basic with the development environment and designed Object Basic extensions for forms routing.</li> </ul> |
| <p>Lead SDE/Systems Tools<br/>Microsoft Corporation<br/>1990-1992</p>         | <ul style="list-style-type: none"> <li>• Leader on the SCM version control project. Designed and implemented key version management algorithms and improved database performance three-fold in later stages.</li> <li>• Standardized internal distribution of Microsoft products and development tools.</li> </ul>   |
| <p>Software Engineer<br/>Boeing Aerospace<br/>1987-1990</p>                   | <ul style="list-style-type: none"> <li>• Lead the development of a portable object-oriented CASE system. The team developed versions for both VAX/VMS and UNIX engineering workstations.</li> <li>• Designed a user interface tool kit to support multiple environments. The team implemented one version to support the X windowing system and one version to support a command line environment.</li> </ul>                                      |
| <p>Software Engineer<br/>Simpact Corporation<br/>1985-1987</p>                | <ul style="list-style-type: none"> <li>• Designed and implemented an interprocessor communications package for a real-time remote monitoring system. The package supported synchronization of telemetry data, diskless boot, remote terminal access, database download, and error-recovery capabilities.</li> </ul>  |
| <p>Programmer<br/>Software Products,<br/>International<br/>1983-1985</p>      | <ul style="list-style-type: none"> <li>• Created a programming language with embedded SQL operations for a relational database.</li> <li>• Developed a serial communications package for a PC.</li> </ul>  |
| <p>Software Engineer<br/>Science Applications, Inc.<br/>1980-1983</p>         | <ul style="list-style-type: none"> <li>• Constructed an error correcting parser for an Ada compiler.</li> <li>• Developed a serial communications package.</li> <li>• Implemented an electronic mail system for a PDP-11.</li> <li>• Developed data processing and simulation programs for commercial research groups.</li> </ul>  |
| <p>Assistant Programmer<br/>UC, San Diego<br/>1978-1980</p>                   | <ul style="list-style-type: none"> <li>• Developed data processing and simulation programs for university and government research groups.</li> </ul>   |

## Skills

High-Level Languages	Java, C++, C, Pascal, Ada, FORTRAN
Scripting Languages	HTML, Perl, Tcl/Tk, Visual Basic, ASP, JavaScript
Assembly Languages	IBM-PC (8080, etc.), HP-1000, DEC PDP-11
Operating Systems	DOS, Windows, Windows/NT, Windows/2000, UNIX
Hardware	Intel x86, DEC Alpha, MIPS