

Lionel E. Deimel

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Objective

To work in a technology-intensive environment requiring superior writing and communication skills, computer and mathematical expertise, and understanding of technological innovation processes.

Strengths

- Computer scientist and software engineer
- Superior writer, editor, and reviewer
- Analytical problem solver with broad interests and competencies
- Experienced educator and trainer
- Strong background in science and mathematics
- Sensitive to the needs of people working in complex technological environments

Education

Ph.D. Georgia Institute of Technology, Information & Computer Science
M.S. Georgia Institute of Technology, Information & Computer Science
A.B. University of Chicago, Physics

Achievements

As Technical Expert

- Guided the evolution of Software Engineering Institute (SEI) Curriculum Modules. Managed production and publication of 19 of these subject-area guides to areas of software engineering.
- Directed research and development projects for IBM, NASA, and U.S. Air Force on software usability, software fault-tolerance, and interactive computer graphics.
- Developed and maintained various software systems, including databases in banking, retailing, manufacturing, and administration.
- Reviewed computer science manuscripts for Prentice-Hall, McGraw-Hill, Brooks/Cole, and other publishers. Provided feedback on Capability Maturity Model Version 1.0 and on other SEI products.
- Advised and developed evidence in landmark software copyright infringement/contract violation case.

As Leader/Manager

- Using traditional leadership skills and computer tools, led nascent Progressive Episcopalians of Pittsburgh from unfocused group of disaffected church members to respected advocate for The Episcopal Church, and served as group spokesperson.
- Planned and implemented deployment of information technology systems (including early use of microcomputers, Microsoft Windows, and Microsoft Office) in academic, nonprofit, and commercial environments.
- Chaired 1990 SEI Conference on Software Engineering Education and edited conference proceedings published by Springer-Verlag.
- Planned and managed seven SEI Faculty Development Workshops in four cities to expose educators to software engineering concepts and to SEI publications.
- Served Association for Computing Machinery (ACM) Scholastic Programming Contest for eight years, including three as Contest Director. Recognized through two ACM service awards for work with this international student competition.

As Educator/Trainer

- Developed and delivered training in software development and personal computer use in a variety of settings to groups and individuals.
- Taught more than 20 different graduate and undergraduate courses in computer science, software engineering, mathematics, and electrical engineering over a period of 15 years.
- Contributed questions to Advanced Placement Computer Science Examination for Educational Testing Service and helped grade test during its first three years.

As Author

- Wrote press releases and educational materials related to disputes within The Episcopal Church and Anglican Communion for Progressive Episcopalians of Pittsburgh.
- Produced a widely distributed SEI Educational Materials package consisting of a report and videotape for teaching about software inspections.
- Wrote innovative SEI Educational Materials package advocating the teaching of program reading skills. Package illustrated novel teaching techniques using an original multitasking Ada program (now available on the Web with other Ada resources) and associated exercises.
- Published more than a dozen papers in computer science/software engineering education, and a similar number in theoretical and practical computer science.
- Developed and maintain *Lionel Deimel's Farrago* Web site and *Lionel Deimel's Web Log*, compilations of original essays, poetry, music, computer science, and mathematics.

Employment

Self-employed (1992 – present)

Consultant. Provide hardware and software services to commercial, nonprofit, and individual clients, including training, acquisition and deployment assistance, and Web and database development.

Computer Comfort (1997 – 1999)

Manager, Special Services. Managed and delivered training, developed and maintained databases for clients, devised Y2K testing/compliance procedures, and developed software and procedures for internal use.

Software Engineering Institute, Carnegie Mellon University (1987 – 1992)

Senior Computer Scientist. With colleagues, set strategy to advance software engineering as academic discipline. Managed development of educational materials for use in industry and universities. Trained teachers in use of materials.

Allegheny College (1985 – 1987)

Associate Professor of Computer Science. Taught computer science and software engineering courses in selective liberal arts college with accredited computer science curriculum.

North Carolina State University (1975 – 1985)

Assistant Professor of Computer Science. Taught undergraduate and graduate courses in computer science, mathematics, and electrical engineering. Conducted research in computer science and software engineering.

Professional & Community Activities

Association for Computing Machinery (ACM): member. Church: Audio-Visual Coördinator, Worship Commission secretary, and choir member. CISV (formerly Children's International Summer Villages), Pittsburgh Chapter: past board member and membership chair. Progressive Episcopalians of Pittsburgh: newsletter editor, board member and past (first) president. Interests: writing, music, science, baseball, photography, and railroads.