

LESTER D. NELSON

2453 MICHELE JEAN WAY, SANTA CLARA, CA 95050
PHONE (408) 876-0996 • E-MAIL LESNELSON@ACM.ORG

EXPERIENCE

2004 - Present Palo Alto Research Center, Inc. Palo Alto, California

Member of Research Staff

Research and Development in Human-Computer Interaction relating to mobile and social technologies to facilitate healthy behavior change and to improve workplace collaboration and sensemaking. Most recent work involved the user research, system and interaction design, and development of server and mobile interface software (Android and iOS) for health behavior change programs and related content authoring tools. Other projects include leading an evaluation of performance factors when using a social annotation (tagging) system, developing new technologies for collaboration (email-based social tagging, selective sharing of content using active keyword tags), conducting fieldwork, intellectual property development and prototyping for informal information sharing in organizations. Research also focused on end-user innovations and platform/system integration requirements (Web mashups, adaptable application/service design), usable access control. Also provided management consulting to a multi-national client on tools for system engineering. Work products include prototypes, patents (5 granted), presentations, and publications.

1995 - 2004 FX Palo Alto Laboratory Palo Alto, California

Senior Research Scientist

Research in Human-Computer Interaction relating to ubiquitous computing, mobile computing, and social technologies. Responsibilities included leadership and participation in all phases of research. Resulting commercial products included interactive public displays for information sharing both online and in physical places (cafés and offices), and physically embodied interfaces for manipulating digital media presentations. Research products include two products, 25 U.S. patents granted, other intellectual property, prototypes, presentations, and publications. Prototypes and patents included improvements for public cell phone use and desktop support of conversations over digital content.

1988 - 1995 Lockheed Missiles & Space Company Palo Alto, California

Data Systems Engineer, Software Systems Consultant, Reengineering Project Manager

Research in Software Engineering relating to the tools and practices for development of large-scale, real-time, mission critical systems. Domains of application were computer aided software engineering, software reuse, and software reengineering. Responsibilities included technology transfer to product organizations, and management consulting on software engineering in the formation of a joint-venture software company (Telstar Systems of Australia).

1983 - 1987 IBM/Federal Systems Division Palo Alto, California

Senior Associate Programmer

Programming of large-scale, real-time, mission critical systems. Responsibilities included the detailed design, code, and test of software components, and the development of tools for programming teams a standard text editor.

LESTER D. NELSON

EDUCATION

1985 - 1987 State University of New York Binghamton, New York
38 Graduate Credits, Systems Sciences, Course work funded by IBM in Modeling and Simulation and other areas of Systems Science, GPA 4.0

1979 - 1982 University of Wisconsin, Madison, Wisconsin
MSCS, Major: Mathematical Programming

1975 - 1979 State University of New York Binghamton, New York
BS, Major: Mathematics and Computing Engineering

INVENTIONS

2001 – Present

Palo Alto Research Center, 5 US Patents Granted
FX Palo Alto Laboratory, 23 US Patents Granted

SYSTEMS SKILLS

Professional programming in Ada, Applescript, Basic, C, C++, C#, Focal, Fortran, HTML/CGI, Java, Javascript (including MEAN stack development), JSP, Jovial, Lisp, Modula, Pascal, Perl, PHP, Proto+, Python/Django, Refine, SQL(MySQL, Postgres), TCL/Tk, Visual Basic, XML (including XQUERY, XSLT, XPATH), and low level languages (DEC PDP11 Assembler, Advance Radar Processor microcode, 1750A Assembler). Application programming for Android, DEC VMS, and RSX11, IBM VM/CMS, iOS, Mac OSX 10.4-10.10, Palm OS, Windows 95/98/NT/XP, UNIX. Systems programming and administration experience in DEC-RT11, RSTS, Windows Server 2003, Mac Snow Leopard Server.

ACTIVITIES AND AWARDS

1999 - Present Member of Association of Computing Machinery
2010 Awarded Senior Membership in the Association of Computing Machinery
2008 PARC Appreciation Award Going Above & Beyond
2006 PARC Outstanding Performance Delivering Results
1996 – 2004 FXPAL Significant Achievement Award ('96,'99, '01, '04)
1994 Lockheed Corporation Pursuit of Excellence Award
1979 President's Fellow, Trinity College
1975 Bausch & Lomb Science Award