

Paul Raveling

Post-career summary of professional history with an appendix summarizing personal avocations

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Summary

Retired software engineer with background in diverse disciplines: Operating systems, system level tools, real time systems, user interfaces (both GUI and other), graphics and imaging, networking, web sites, and RDBMS systems. System analysis and system architecture are a common thread in all of these areas. Past work included roles of individual contributor, project leader, and group manager, usually working as a captive employee but also as an independent consultant.

System analysis and research skills have proven to be the part of career-based experience of greatest general value to all other forms of endeavor. Now retired, I am open to considering work as a contractor or consultant on a project-specific basis.

Employment History

Oracle Corporation

1994 to 2009: RDBMS product development, Server Technology Division. Distributed Database/Gateways. Retired in November, 2009.

Unify Corporation

1990 to 1994 Product development, Unify Vision product. Main focus was Unify's 4GL compiler.

USC Information Sciences Institute

1986 to 1990 Graphic user interfaces, graphics, and imaging for Integrated Interfaces project. The II project used artificial intelligence techniques to generate a user interface in real time for multimodal presentation.

Independent Consultant

1983 to 1986 Largest jobs:

FutureNet: Development and project lead for an ECAD product

Garrett AiResearch Real time avionics software development,
Standard Central Air Data Computer (SCADC) and B-1B CADC
SCADC covered these aircraft:

A-4, A-6, A-7, F-4, F-111, KC-135, C-141

FutureData, GenRad/FutureData

1979 to 1983 Product development as lead developer and group manager, in-circuit emulator product line (2302 Slave Emulator), Advanced Development System, and other projects

USC Information Sciences Institute

1973 to 1979 Software development for research projects:

EPOS operating system, real time speech transmission on ARPANET*, support software, terminal firmware for distributed user interfaces

* Our group at ISI and a group at MIT Lincoln Labs demonstrated the first real time speech transmission on ARPANET. This first produced Network Voice Protocol (NVP) and changes in low level network protocols for real time data transmission. The lower level protocol technology is still in use on the Internet as Real Time Protocol (RTP) for streaming audio and streaming video. A side effect in the late 1970s was that DARPA designated EPOS as its standard PDP-11 operating system for real time networking research. Within ISI's Speech group I served as architect and lead developer of EPOS.

Ovonic Memories, Vermont Research Corporation

1971 to 1973 VEROS operating system and support software for new technology disk drive products

UCLA Campus Computing Network

1966 to 1971 Tools and system software, mainly layered over OS/360

Education

UCLA, 1962 to 1966 with a change in major: 2 years in physics, 2 years in math, and de facto extracurricular concentration on computing: This preceded availability of computer sciences as an academic discipline.

Summary of major personal avocations

Docent service

Aerospace Museum of California
California State Railroad Museum (past, now inactive)

Community service: Past Board of Directors offices in the community:

Director and President of El Dorado Hills Citizens Alliance, throughout EDHCA's 4-year existence
Director of the Lake Forest-Waterford Owners Association for 13 years, President for 10 years

Current memberships

Aircraft Owners and Pilots Association (AOPA)
American Association for the Advancement of Science (AAAS)
American Institute of Aeronautics and Astronautics (AIAA)
American River Conservancy (ARC)
Sierra Club

Web sites

www.sierrafoot.org: Personal web site, established 2001. Its most visited section is recognized worldwide as a resource on history of the X-15 hypersonic research program.

www.edhca.net: Web site of the El Dorado Hills Citizens Alliance. The Citizens Alliance formed in 2006 and dissolved in 2010. The web site was decommissioned in 2011.

www.edhcity.org: Web site of the El Dorado Hills Incorporation Committee, then for the Yes on Measure P/Yes on Cityhood Ballot Measure Committee. This site was decommissioned after the November, 2005 election.

<http://aiaasacramento.com> Web site of the Sacramento Section of AIAA (American Institute of Aeronautics and Astronautics). I served briefly as its webmaster, having joined the Sacramento Section only slightly before the Sacramento Chapter lapsed into dormancy.

Major recreation interests:

X-15 history

Hiking -- especially in Northern Sierra areas

Soaring (flying sailplanes, not hang gliders)

Driving, including road course open track days

Recreational travel

Past:

Sailing (owned and raced a Soling)

Skiing