

Ted C. Park

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CURRENT ACTIVITIES

Mr. Park is consulting and providing technical assistance for multiple healthcare organizations (primarily providers and vendors). He specializes in conceptualization and architecture for large-scale systems that have significant national or multi-regional significance.

A recent highlight was writing multiple comprehensive proposals for complex technical implementations of healthcare information systems for regions of the National Health System in the United Kingdom.

Other specific projects include designing data and transaction security solutions, testing and characterization of large-scale Electronic Medical Record systems, assisting with the architecture of federated databases of multiple disjoint systems, and developing metrics and evaluation mechanisms to ensure guaranteed levels of performance for provider-based interactive systems (networks, servers, and workstations) for thousands of simultaneous users.

EMPLOYMENT HISTORY

2002-	Consultant, Healthcare Information Technology and Systems.
1993-2002	TRW Systems (healthcare).
1990-1993	TRW Systems Integration Group (USAF and NASA programs).
1980-1990	TRW Space and Defense Sector (ballistic missiles)
1977-1980	Medical Data Corporation (system development director).
1975-1977	Loma Linda University (project engineer, computers, biomathematics).
1971-1975	Pacific Union College (instructor, pre-med, physics, computer science).
1969-1971	Loma Linda University (research support, systems programmer).

BACKGROUND

Mr. Park has more than 30 years experience in a wide variety of information systems venues; approximately half with government/military systems and half with medical information systems. His skills range from hands-on implementation to project and line staff management. Mr. Park has been especially proficient with solutions where hardware and software meet: interfaces, networking, system architectures, operating systems, computer languages, databases, and standards. His educational background includes the following:

1971	Pacific Union College; Angwin, California two awarded degrees: Physics (BS) Mathematics (BA)
1971 - 1975	Pacific Union College; Angwin, California the course work for three additional degrees: Physical Science (MA) Mathematics (MA) Education (MA)

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DEMONSTRATED EXPERTISE

Leadership and management - projects, staff, and skill centers.
Organizing and directing multi-faceted and highly skilled teams.
Experience across the spectrum from technology through executive levels.
Software engineering - processes, consulting, and analysis.
Information technology and systems solutions for healthcare applications.
Interactions with customers and teammates.
Organizational effectiveness improvements and technical troubleshooting.
Grasp of complex technical problems and ability to identify core/critical issues.
Writing, presentations, and communication of ideas and solutions.
Visioneering and strategic planning.

CAREER HIGHLIGHTS

Deputy/technical director of a project worth over \$300M spanning several years.
Managed multiple projects worth over \$10M.
Directly supervised skill center staff of 70 professionals.
Developer of high-reliability fault-tolerant medical information software.
Consulting and analytical activities for various healthcare enterprises.
Modeling the behavior of complex community health information networks.
Project manager for critical elements of national ICBM program.
Lead engineer for definition of command systems for USAF and NASA space launchers.
Co-authored the Pascal Computer Language IEEE/ANSI standard.
Pioneer in use of mini and micro computers as middleware and gateways.
College instructor and laboratory manager.
Creator and coordinator of two multi-disciplinary college degree programs.
Expert in use of Project Management Body of Knowledge (PMBOK).
Senior member of multiple professional societies including ACM, IEEE, and PMI.

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WORK EXPERIENCE DETAILS

1993 - 2002 Operations Manager, Healthcare Information Systems, TRW Systems Integration Group. Responsible for engineering and marketing activities involved with converting the TRW Systems Engineering and integration expertise into a Healthcare Systems Integration line of business. Specific activities included proposal preparation, marketing analysis, customer identification and needs assessments, coordination and prioritization of tasks and sales targets, establishing and managing budgets, training and education, and generation of reports and briefings. Duties included management of critical consulting contracts with key customers and overall technical direction of internal development projects.

***Special Note:** Developed a definitive economic and technical model for Community Health Management Information Systems. A central portion of this model provides the most comprehensive list of healthcare encounter and transaction data, appropriate to a distributed computing environment, that has ever been published. Mr. Park was the principle architect and engineering analyst for this model. He also coordinated the efforts and inputs of several other industry experts.*

1990 - 1993 Project Manager, Ballistic Missiles Division, TRW Systems Integration Group. This senior technical/management position involved the supervision and direction of multi-discipline projects. Range of technical domain covered a spectrum from esoteric electronics (e.g. satellite links) to fundamental mechanical systems (e.g. railroad cars for transporting missiles and mobile control centers). Indirectly controlled/influenced more than 300 government contractor personnel. Conducted numerous design reviews and audits. Performed national level expert analysis and staff work. One key assignment was performing requirements analysis and developing concepts for the overall information and network needs for the next generation of Air Force and NASA space launchers.



***Special Note:** Selected as one of four industry specialists in Southern California to perform an independent assessment and audit of Riverside County's problematic Financial Management Information System computer automation. (Riverside County is one of the largest in the United States with a population of over 1M and an annual budget of over \$1B.) This was a significant six-month analysis that delivered a well-received report to the Board of Supervisors. Mr. Park was the principle author of the report.*

***Special Note:** Was a key participant in the development of the process and content and principle co-author of "Software Development Capability Evaluation", published by USAF Materiel Command, and later DoD. This is a comprehensive improvement and definitive extension of the widely used Capability Maturity Model (CMM) maintained by the Software Engineering Institute (SEI).*

1980 - 1990 Computer Systems Engineer, Ballistic Missiles Division, TRW Space and Defense Sector. A sequence of positions ranging from senior technical staff up through first line supervisor and middle management. Participated as principal analyst or lead project engineer on most of the critical missile software projects through this decade. Developed significant systems engineering and integration skills. Worked closely with government and contractor personnel nationwide. Widely recognized as world-class troubleshooter (both technical and management problems) and generator and keeper of much of the corporate software systems wisdom and philosophy. Directly managed as many as 70 engineers.

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1977 - 1980 Director of Systems Development, Medical Data Corporation.

Architected and implemented commercially successful medical data processing systems. Primary responsibility was for language design, operating system design, and database system design. Set industry standard for speed, reliability and numbers of concurrent users/ports supported by then-current mini-computer architectures.

1975 - 1977 Project Engineer, Biomathematics Department, Loma Linda University.

Designed multi-processor complex mini-computer based research tools. Developed state-of-the-art "smart" interfaces between various machines and peripherals. Designed sophisticated graphical display systems.

1971 - 1975 Instructor, Physics and Computer Science Department, Pacific Union College.

Taught Physics, Electronics, and Computer Science topics; major emphasis on pre-medical and pre-nursing curriculum. Creator of and coordinator for the multi-discipline Computer Science degree program and the Physical Science degree program. Director of the Educational Computer Facility. Director of the advanced and general physics laboratories.

1969 - 1971 Systems Programmer, Scientific Computation Facility, Loma Linda University.

Designed medical research tools and scientific data processing systems. Tasks required expertise with assembly languages for several early minis and micros.

PUBLICATIONS

Ivan R. Neilsen, Ted C. Park, and C. Duane Zimmerman (Department of Biomathematics, Loma Linda University School of Medicine); "**A Multiminiprocessor Approach to Concurrent Computation for Interactive On-Line Simulation of Complex Biosystems**"; International Conference on Parallel Processing, 1977.

Ralph A. Korpman and Ted C. Park (Medical Data Corporation); "**The Functionally Distributed Database: ANS MUMPS as an Implementation Tool**"; IEEE Computer Society International Conference, 1980.

S. Andrew Yakush, T. Joe Willey, Ted C. Park, and George Maeda (Department of Physiology, Loma Linda University School of Medicine); "**Multiprocessor Architecture for Rapid EEG Frequency Analysis**"; IEEE Transactions on Biomedical Engineering, Vol. BME-29, No. 1, January 1982.

T. C. Park and R. A. Korpman (Medical Data Corporation); "**TMML--An Assembly-Level Programming Aid**"; ACM SigSmall Newsletter, Vol. 8, No. 1, February 1982.

(Authored by a committee which included Mr. Park); "**American National Standard Pascal Computer Programming Language**"; Published by IEEE, Distributed by John Wiley & Sons, January 1983.