

Dr. Jordin T. Kare
Kare Technical Consulting

908 15th Ave. East
Seattle, WA 98112

voice/fax 206-323-0795 cell 510-459-7827
e-mail jkare@jkare.com

Experience

1997-current **Consultant**, Kare Technical Consulting, sole proprietor

Consultant to aerospace companies and Federal laboratories on advanced space system architecture and design. Large customers include Northrop Grumman TASC, Boeing, Orbital Sciences, and Lawrence Livermore National Laboratory. Small business customers include Tethers Unlimited (space tether technology), Andrews Space and Technology (superconducting cable design and evaluation for a novel deep-space propulsion system), ENSCO (global distributed microsensor network) and Proton Energy Systems (space applications of regenerative fuel cells).

6/00 – 10/03: Payload Engineering support for Boeing Resource21 program, responsible for developing requirements and technical interface to subcontractors for a \$100M-class multispectral sensor payload. Tasking included review and analysis of subcontractor's visible/NIR/SWIR FPA design and I&T program and preliminary design of thermal IR sensor.

Key member of the Boeing team on CONESTOGA and CONESTOGA II, unclassified NRO-sponsored projects to develop concepts, architectures, and technology roadmaps for U.S. Intelligence community information systems in the 2005 – 2025 timeframe. Developed several innovative concepts for projecting information technology needs and for organizing large secure information systems.

Two NASA Institute for Advanced Concepts (<<http://www.niac.usra.edu>>) Phase I Fellowship awards: modular laser launch architecture (2003-04) and SailBeam, an innovative and technically-feasible propulsion concept for relativistic interstellar probes (2001)

1997 **Chief Scientist**, RDL Space Corp., San Ramon, CA
 Senior Research Scientist, RDL Inc., Culver City, CA

As Sr. Research Scientist for RDL Inc., developed system architecture and sensor payload concept for major next-generation space system for a classified customer. Also a key participant in classified advanced space system concept study conducted by a major aerospace company, and in preparation of successful proposals for NASA LightSAR program and multiple classified programs. As Chief Scientist for fledgling RDL Space Corp., developed payload concepts for commercial space-based SAR imaging system and participated in development of business plan and DoC remote-sensing license application.

1995-1996 **Physicist**, V-Division Space Group
 Physics and Space Technology Directorate
 Lawrence Livermore National Laboratory (LLNL), Livermore, CA

Lead designer for Tactical Imaging Constellation Architecture Studies; responsible for system concepts and point designs for military electro-optic and synthetic-aperture radar satellites and ground systems, including a 4-meter unfilled-aperture optical imaging satellite. Also developed advanced concepts in diverse areas including biological weapon countermeasures, laser power beaming, and reconnaissance systems.

1991-1995 **Physicist**, Special Studies Program (O-Group), LLNL

Developed advanced concepts and technologies for spacecraft and launch vehicles. **Program leader** for *MOCKINGBIRD* miniature reusable launch vehicle. LLNL interface to NASA/JPL for Pluto Fast Flyby mission development. Mission planner for Clementine lunar mapping mission.

Assigned to DOE Office of Space, Washington DC in 1993-1994, as Technical Advisor to the Director in the area of Remote Sensing. Responsible for coordinating joint DOE/NASA projects in space-based remote sensing. Assisted in formulating Office of Space policy and objectives.

1987-1991 **Program Leader**, LLNL/SDIO Laser Propulsion Program

Directed multiple university and industrial research teams in developing technology for ground-to-orbit laser propulsion (high-volume launch of small rocket vehicles powered by large ground-based lasers).

1985-1986 **Physicist**, Special Studies Program (O-Group), LLNL

Developed laser propulsion application concept; organized 1st SDIO/DARPA Laser Propulsion Workshop. Also worked on adaptive optics technology for atmospheric compensation of laser beams, developing designs for cooled deformable mirrors.

1984-1985 **Research Associate**
Lawrence Berkeley Laboratory (LBL), Berkeley, CA

Education:

1978-1984 University of California, Berkeley, CA
Ph.D. in Astrophysics, 1984
Fannie and John Hertz Foundation Fellow

1974-1978 Massachusetts Institute of Technology (MIT), Cambridge, MA
B.S. Physics, 1978
B.S. Electrical Engineering, 1978
Member Phi Beta Kappa, Sigma Xi (Physics), Tau Beta Pi
(Engineering), Eta Kappa Nu (Electrical Engineering)

Other Information:

Member AIAA, IEEE, SPIE. Listed in Who's Who in America (2001 edition)

Approximately 30 publications; 2 patents.

Current SCI clearance

Partner in small publishing business, 1981-87.

Personal:

Born 10/24/56, Ithaca, NY. U.S. Citizen. No military service

Married, no children

References available on request