Kenneth A. Pickar

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EMPLOYMENT	Visiting Professor of Mechanical Engineering (1998-present), J. Stanley Johnson Professor (1999-2003) California Institute of Technology, Pasadena, CA Teaching courses in Entrepreneurship, Management of Technology, Product
	Design for the Developing World. Coaching start-up Ventures; Presidents Advisory Board for JPL, Co-PI of NSF-funded Entrepreneurial Postgraduate Fellowship Program
	2005 Award for Excellence in Teaching by Undergraduate Students of Caltech Corporate Positions
	Board of Directors, Level One Corporation (1997-1999) (was on NASDAQ, later sold to Intel in 1999).
	Board of Directors, Neustar Corporation (2000-). IPO NYSE in June 2005. Board of Directors, H2Scan Corporation (2005-) Operating Committee, Idealab (2004-)
	(1999-present) Tech Coast Angels (LA) Made 10 early stage investments through Southern California Network, Executive Committee (2001-)
	UCLA Anderson School of Business Visiting Lecturer, Global Access Program (2005-)
	1993-1998 - Senior Vice President, Engineering and Technology AlliedSignal Aerospace, Torrance, CA (now Honeywell) Chief Technical Officer for the \$6B Aerospace Sector of AlliedSignal. Chairman, Corporate Technology Board of \$15B parent company. Responsible for the new product development process, Corporate R&D Laboratories, technology development in businesses, program management, and university relations. Budget of \$300M and leadership of 8000 engineers in Aerospace.
	Accomplishments: Sector average earnings growth of 15% year. Drove modern product development processes including program management to produce many new products. These include new turbogenerator business for the industrial market, more reliable engines with 50,000 new Ceramics components now flying; Enhanced Ground Proximity Warning Systems to greatly improve air safety.
	1983-1992 - Manager-Electronic Systems Research Ctr. General Electric Corporate Research and Development, Schenectady, New York Corporate Manager for Electronics Technologies including VLSI, displays, power devices circuits drives controls high density packaging optical electronics
	enhanced definition TV, signal processing. Technologies applied to, semiconductor, medical imaging, aerospace, lighting, aircraft engine, motors, transportation, communications, and others. Manager of a staff of 350 people in four laboratories including 100 PhDs. Budget of \$60M comprises 30% of Corporate R&D, includes \$15M Government contracts.

Accomplishments: MRI and Ultrasound now multi-billion GE businesses. Complete revitalization of \$2.0B Electronic Distribution due in part to R&D innovation. Genius I/O industrial automation product accounts for 20% of GE Fanuc sales (leveraging an additional 30%), Halogen IR lamp introduced by GE Lighting with 30% efficiency improvement.

1982-1983 - Senior Partner

Thomas Consulting Group, San Jose, California

Consulted for the Semiconductor Research Corporation at its inception. Also advised in electronics technology and manufacture for a wide variety of systems and components companies.

Accomplishments: *Product development cycle times at several clients reduced by greater than 50%.*

1978-1982 - Director-Advanced Technology Center Signetics Corporation, Sunnyvale, California

R&D for MOS and Bipolar silicon processing, packaging and factory computer automation. Technical liaison with parent company, Philips. Capital budget of \$25M to build and equip 120,000 sq. ft. R&D building. Headed group of 50 scientists and 25 technologists.

Accomplishments: *Provided the technology for Philips (Signetics) CMOS and bipolar processes to advance to 1 Micron and below.*

1974-1978 -Manager-New Technologies Department Bell Northern Research, Ottawa, Canada

Technologies included electronic materials (II-VI and III-V) and thin Film devices to support exploratory subsystem research in display, printing, scanning and keyboards. Directed group of three managers with 20 PhDs and 10 technologists.

Accomplishments: Changed focus of Laboratory from silicon technology to more coupled areas of parent company.

1972-1973 - Visiting Professor Faculty of Electrical Engineering, Technion, Haifa, Israel Sabbatical leave from Bell Labs to teach, write and perform research.

Accomplishments: Helped found a microelectronics Lab that had major technical and defense accomplishments in sensors.

1966-1974 - Technical Staff Bell Laboratories, Murray Hill, New Jersey

Researched thin film and silicon technologies, including ion implantation and electron beam lithography. Wrote Review Article on Beam Technologies

Accomplishments: *Helped develop ion implantation technology as a basic process for the semiconductor industry. Now universally used.*

EDUCATION: Bronx High School of Science - 9/54-6/57 - Diploma Queens College, City University of New York - 9/57-6/61 - BS, cum laude, Phi Beta Kappa, Physics and Math University of Pennsylvania - 9/61-10/66 - MS, PhD – Physics *Thesis: "Third Sound in Liquid Helium"*

MANAGEMENT COURSES:	Management of Research - Harvard Business School - 1978 Financial Management for Non-Financial Managers - Wharton School - University of Pennsylvania - 1980 GE Executive Development Course - Crotonville, NY - 1985 Baldridge Examiner Training – 1997 Six Sigma training 1995
UNIVERSITY AND EDUCATIONAL RELATIONSHIPS:	Semiconductor Research Corporation, Board of Directors (1983-86) Vice-Chairman (1986)
	Microelectronics and Computer Consortium, Board Of Directors (1986-87)
	Council on Competitiveness, Technical Advisory Committee, Washington, D.C. (1991-1992)
	University of California, Berkeley (Extension) (1979-1983) course organizer and lecturer
	Albany Medical Center, Trustee (1984-1992)
	National Academy of Sciences/National Academy of Engineering- Academic Research Facilities Conference (1985)
	IEEE Continuing Education Committee, Chairman, Advisory Board (1990-1992)
	Various University Relation Positions; AlliedSignal Campus Rep at Caltech (1993-1997); Cornell NSF Nanofabrication Center Advisory Committee (1984-1992); Stanford Center for Integrated Systems, Advisory Board (1984-1989); University of Illinois, Micro Center Advisory Board (1985-86)
SPECIAL INTEREST	Board Of Directors (2005-), LA Regional Food Bank Feeds 400,000 people a week in LA County
TECHNICAL	Over 50 Technical publications invited and contributed talks on the subjects of Ion Implantation, plasma etching and electron beam lithography. Guest Editor Proceedings of the IEEE, Review Article "Advances in Solid State Science"
PERSONAL	Enjoy horticulture, hiking, skiing, biking, music and books. Married, three grown children.