

Math/Physics Wizard! Ask to receive awesome Track Record!

Dr. ROBERT W. BASS

Adjunct Prof. of Systems Engineering, Florida Institute of Technology [(F.I.T) PAX-NAS branch]
5208 Bryant Irvin Rd #3144, Fort Worth, TX 76132
RES: (817) 370-7109; CELL: (817) 682-2655; e-Mail: < donquixote@innoventek.com >

Objective:

Employment compatible with my experience & background in applied mathematics, theoretical applied physics, nonlinear dynamics, orbital mechanics, GPS, GNC, theoretical systems engineering including satellite attitude control & flight technology issues, simulation & performance analyses, control systems designs for missiles, aeroballistic launch vehicles, aircraft & rotorcraft, communications engineering, digital signal processing, empirical system identification via test-data reduction, and software engineering, particularly using the MATLAB programming environment.

Experience:

1956-57 *RIAS (Research Institute for Advanced Study) Div.*, Martin-Marietta Company, Staff Scientist [& founder, nonlinear mechanics activity]
1957-59 *Princeton Plasma Physics Lab* (On leave from RIAS), 2nd Lt. USAF Res
1959-60 *RIAS*, Senior Staff Scientist
1960-62 *Aeronca Manufacturing Corp.*, first as *Chief Scientist* of Aerospace Division, then as *General Manager* of **Astro-Control Systems Div.**
1962-65 *Hughes Aircraft Co.*, first as Senior Scientist, then as Head of *Advanced Studies Staff, Guidance & Controls Div.*
1965-66 *Associate Professor, Aerospace Engineering Sciences*, University of Colorado
1966-71 *McDonnell-Douglas Co.*, Assistant to Chief Engineer, **Advance Flight Mechanics & Guidance**, R&D Directorate
1971-81 Professor, **Physics & Astronomy**, Brigham Young University [on sabbatical & leave, 1979-81]
1979-81 Manager, **System Analysis & Software Requirements**, AH-64 [Apache] Weaponization, Hughes Helicopters, Inc.
1981-86 *Litton Industries*, first in Guidance & Controls Div., then as *Chief Scientist* of **Advanced Systems Group (SDI)** of Data Systems Div.
1986-87 *Research Engineer III* [same salary as Full Prof.], Flight Systems Lab., **Electrical Engineering Dept.**, UCLA
1987-88 *Professor, Aero Engineering*, Air Academy, Egyptian Air Force, Cairo
1988-92 Signal Processing Dept, *Information Sciences, Science Center*, Rockwell International
1991-92 *Professor, Systems Engineering*, West Coast University [part time]
1992-98 *President*, Innoventek Inc. [<http://www.innoventek.com>]
1998 *Aerospace Engineer*, SAIC Inc.
1998-2004 *Engineer III*, BAE SYSTEMS North America, Inc. [retired with annuity pension 4/14/04]
2005 *Senior Principal Engineer*, ARINC Engineering Services LLC., Patuxent, MD
1998-2005 *Adjunct Professor, Systems Engineering*, Florida Institute of Technology (F.I.T.)
2005-2007 *President*, Innoventek Inc. [<http://www.innoventek.com>]
2007-2010 *Staff Engineer*, Sikorsky Aircraft Corporation [until 200-employee Layoff Termination 9/30/10]

Education:

B.A. (Physics)	Johns Hopkins University, 1950
M.A. Oxon (Mathematics)	Oxford University, [<i>Rhodes Scholar</i>] 1952
Ph.D. (Mathematics)	Johns Hopkins University, 1955 [Wintner, Hartman]
Post-Doctoral Fellow	Princeton University, 1955-56 [under Lefschetz]

Professional Recognition:

Voted *Outstanding Young Scientist of 1960* by Maryland Academy of Sciences
Honored by American Control Conference (ACC) 2-Hour *Special Session*, June **1998**
Invited by National Academy of Engineering (NAE) to nominate former protégé Rudolf Kalman for the \$500K Draper Award , **2008**, which led to Kalman's National Medal of Science from President Obama, **2009**