

Academic Rank: Senior Instructor

Degrees:

- Ph.D. - Aerospace Engineering, University of Kansas, Lawrence, 1995
- M.S.E. - Aerospace Engineering, University of Michigan, Ann Arbor, 1985
- M.S. - Aerospace Engineering Sciences, University of Colorado, Boulder, 1979
- B.S.- Aerospace Engineering Sciences, University of Colorado, Boulder, 1977

Number of Years of Service on this Faculty: 15 years, 1996 – present

- Lecturer in Aerospace Engineering Sciences, University of Colorado, Boulder, 1996 – 1999
- Senior Instructor in Aerospace Engineering Sciences, University of Colorado, Boulder, 1999 – present
- Aerospace Engineering Sciences Alumni Relations and Communications Assistant to the Departmental Chair, University of Colorado, Boulder, 2004 – present

Other Related Experience:

- Worked at NASA Dryden Flight Research Center under a grant to the University of Kansas Center for Research, Inc. Performed research pertinent to doctoral dissertation, including designing a large transport aircraft, implementing this design on a fixed-base simulator, and performing simulator flight test experiments using NASA flight test pilots, 1992 - 1994
- Employed at Design, Analysis and Research Corporation (DARcorporation) in Lawrence, Kansas. Worked as an engineer involved in the development of Advanced Aircraft Analysis (AAA), an interactive computer program to perform preliminary design and analysis functions for fixed wing aircraft, 1991 - 1992
- Employed by McDonnell-Douglas Corporation in Long Beach, California. Participated in DC-10 noise certification program, DC-10 sustaining work, and in a variety of 2-dimensional transonic analyses, including supercritical airfoil design and design and analysis of high-aspect-ratio, transonic wings. Taught a class in structured FORTRAN to company engineers, 1980 - 1982
- Employed by Martin-Marietta Aerospace Division in Denver, Colorado. Worked as a mass properties engineer on Titan vehicles, 1979
- Employed by LTV Aerospace in Houston, Texas. Technical advisor in transcription of joint American-Soviet Apollo-Soyuz space mission tapes, 1975

Consulting:

- Consultant for Kennedy Aeronautics, Inc., 1998 – 2010
- Gathered data on propeller blades which were used and acknowledged by Dr. Daniel Raymer in his AIAA textbook "Aircraft Design: A Conceptual Approach, Fourth Edition", 2005
- Consultant for Aeroscope, Inc., 2000 – 2004

Scientific Societies and Societies Related to Profession:

- AIAA - American Institute of Aeronautics and Astronautics (Associate Fellow)
- AOPA - Aircraft Owners and Pilots Association
- SAE - Society of Automotive Engineers
- Sigma Gamma Tau (SGT) - National Aerospace Honor Society
- Tau Beta Pi - National Engineering Honor Society
- The Ninety-Nines - International Organization of Women Pilots

Honors and Awards:

- AIAA Rocky Mountain Section Educator of the Year Award, 2009
- John and Mercedes Peebles Innovation in Education Award, 2009
- College of Engineering Outstanding Advisor Award, 2009
- Boeing Welliver Faculty Fellowship, 2007
- American Institute of Aeronautics and Astronautics (AIAA) National Faculty Advisor Award, 2007
- Subaru Educator Spotlight Award of \$500 from Subaru of America Foundation, 2004
- National AIAA Special Service Citation "In Recognition of Your Outstanding Effort in Planning, Coordinating and Executing the 2003 Region V Student Conference", 2003
- University of Colorado Distinguished Engineering Alumni Award in Education, 2002
- Nominated for Sullivan-Carlson Teaching Award, 2000
- AIAA Rocky Mountain Section Faculty Advisor Award, 1998, 1999 and 2000

Grants:

- Awarded \$10,000 grant by General Dynamics as principal investigator of "Construction of a UCAV Testbed Aircraft". This grant supported testing of the Tactical Unmanned Aerial vehicle senior project (Fall 2001/Spring 2002) built previous year.
- Awarded \$54,000 grant by General Dynamics as principal investigator of "Construction of a UCAV Testbed Aircraft". This grant supported the Tactical Unmanned Aerial vehicle senior project (Fall 2000/Spring 2001).

Institutional and Professional Service in the Last Ten Years:

- Served on the departmental Undergraduate Committee, 2009 - present
- Nominated CU alumnus Dr. John McMasters for the College of Engineering's Distinguished Engineering Alumni Award (DEAA), which he won (September 2007)
- Requested by Dean's Office to serve on Distinguished Engineering Alumni Award Selection Committee (from 2003 - 2006) – served as Vice-Chairman in 2005 and Chairman in 2006
- Requested by Dean's Office to serve on Advisory Board of the Colorado Engineering Magazine (2002 - present)
- A judge for the Math, Engineering and Science Achievement (MESA) model glider competition held at the University of Colorado for high school students, 2000 - 2002
- Faculty Advisor, CU Branch of AIAA, 1998 – present
- Faculty Advisor, CU Branch of SGT, 2007 - present
- Faculty Advisor, Flying Club at CU, 2004 – present
- AIAA Rocky Mountain Section Leadership Council - Vice-Chairman of the Northern Section, 1998 - 2003

- Served on the departmental Curriculum and Teaching Upper Division Implementation Committee, 1999 – 2000, 2006 – 2007
- Reviewer of doctoral dissertation of Lt. Col. Brian William Kowal at the University of Dayton entitled “The Theoretical Basis For Propulsion Control of Aircraft”, 2000
- Have flown twice on NASA’s KC-135 “Weightless Wonder” reduced gravity aircraft, better known as the “Vomit Comet”, as a participant in NASA’s Reduced Gravity Student Flight Opportunities Program. Participated as a journalist for two student teams from University of Colorado, 1999 and 2001

Special Skills: FAA certified private pilot with some instrument and aerobatic training