

# Abbreviated Vitae for Ronald A. Madler, Ph.D.

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## University Address

Embry-Riddle Aeronautical University  
3700 Willow Creek Road  
Prescott, AZ 86301-3720  
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(928) 777-3896 (w)

## Home Address

7512 Clear Sky Trail  
Prescott Valley, AZ 86315

## Professional Experience:

August 2010 - Present	<b>Dean, College of Engineering,</b> Embry-Riddle Aeronautical University
May 2011 – June 2011	<b>Visiting Professor,</b> Hochschule für Angewandte Wissenschaften, München
April 2010 – Present	<b>Professor,</b> Embry-Riddle Aeronautical University, Aerospace and Mechanical Engineering Department.
April 1998 – April 2010	<b>Associate Professor (with tenure),</b> Embry-Riddle Aeronautical University, Aerospace Engineering Department.
June 2007 – August 2007	<b>Senior Scientist,</b> Oceanit, Inc., Maui, Hawaii.
January 2006 – May 2006	<b>Contractor,</b> NASA Johnson Space Center, Houston. (Sabbatical)
April 2001 – Jan. 2006	<b>Chair of Aerospace Engineering</b> Embry-Riddle Aeronautical University.
Summer 2005	<b>NASA Summer Faculty Fellow,</b> Jet Propulsion Lab, Pasadena, CA
Summer 2004	<b>Boeing A.D. Welliver Faculty Fellow,</b> Boeing Satellite Systems, El Segundo, CA
August 1994 - April 1998	<b>Assistant Professor,</b> Embry-Riddle Aeronautical University, Aerospace Engineering Department.
January 1997 – March 1998 Summer 1995, Summer 1996	<b>Research Associate,</b> AFOSR Summer Faculty Research Program, Phillips Laboratory
1984 – July 1994	<b>Lead Graduate Teacher, Graduate Part-time Instructor, Graduate Research Assistant, Teaching Assistant, Grader,</b> University of Colorado, Department of Aerospace Engineering Sciences / Colorado Center for Astrodynamics Research (CCAR).
Summer 1987, Summer 1988	<b>Research Fellow,</b> NASA Johnson Space Center, Houston, TX
September 1985 - May 1986	<b>Computer Programmer,</b> National Oceanic and Atmospheric Administration, Boulder, CO.
Summer 1985	<b>Engineering Assistant,</b> Martin Marietta Corporation, Denver, CO.

## Education:

Ph.D., Aerospace Engineering Sciences, August 1994, University of Colorado (CU), Boulder, CO  
“Sensitivity of the near-Earth Orbital Debris Environment to Satellite Fragmentation Parameters”

M.S., Aerospace Engineering Sciences, December 1987, University of Colorado (CU), Boulder, CO

B.S., Aerospace Engineering Sciences, May 1986, University of Colorado (CU), Boulder, CO

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## **Courses Taught:**

Taught 20+ courses within the College of Engineering, from 1<sup>st</sup> year courses through senior year courses, including classic lecture, lab and design courses. Seven of these courses were developed for the first time.

## **Research Supervision:**

Mentor and sponsor for numerous undergraduate research topics and projects, mainly through the Arizona Space Grant Consortium

## **Current Professional Activities:**

Arizona NASA Space Grant Associate Director for Embry-Riddle Aeronautical University

## **Previous Professional Activities:**

Served as reviewer for journals, conference session organizer, professional organization committees, working group member, session chair for conferences, and other professional service activities.

## **Professional Organizations:**

Member, American Institute of Aeronautics and Astronautics (AIAA)  
formerly ERAU Student Section Advisor for AIAA  
formerly Chair, Vice-Chair, Secretary for the Phoenix section  
formerly Deputy Director for Education – Region VI, AIAA  
Member, American Astronautical Society (AAS)  
American Society for Engineering Education (ASEE)  
Formerly Chair, College-Industry Partnerships Division  
Past Member, Society of Automotive Engineers (SAE) and SPIE

## **Honors/Awards:**

Numerous faculty teaching, research, and service awards and honors

## **Community Volunteer Activities:**

Served as coach, volunteer, and board member for youth sports as well as having been a volunteer ski patrol and volunteer for other organizations.

## **Articles/Proceedings/Conference Papers/Invited Presentations/Research Reports:**

Numerous papers, mainly in the area of space debris, astrodynamics and engineering education.