

## RESUME

WALTER GOEDECKE

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Candidate Source: External

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### EXPERIENCE SUMMARY:

Research scientist, electrical engineer, electromagnetics, geophysical engineer and surveyor, computer programmer, business manager, event organizer, fortran, matlab, ArcMap, space science professor, radar, GPS analyst.

### EXPERIENCE:

JUL 2004 to PRESENT , 40 Hours/Week

Professor in space science

Embry-Riddle, Webster, etc.

Jim Savard, 303-470-8825

#### Adjunct Professor

Embry-Riddle Aeronautical University at the Cheyenne Center, F.E. Warren Air Force Base, Cheyenne, WY; and at Colorado Springs Center, Schriever Air Force Base, Colorado Springs, CO; Webster University at Ball Aerospace Corp., and Metropolitan State College, Denver, CO

- Teach graduate aerospace classes in Space Applications, Earth Observation and Remote Sensing, Space Mission and Launch Operations, and GPS/GIS.

- Won a Faculty Course Development award from the Wyoming NASA Space Grant Consortium in 2005 to develop a Global Positioning System (GPS) course for Embry-Riddle.

- Won two project development awards in 2006, from the Wyoming NASA Space Grant Consortium and Embry-Riddle, to design, build, and launch a nano-satellite to demonstrate active orbital modification by including a thruster on it.

- Serve on graduate capstone project committees, advise students, and referee results.

FEB 2009 to PRESENT , 40 Hours/Week

Physicist, NSPS-1310-YD-02

US Navy, NAWCWD, China Lake Naval Base, California

Jean Carlton, 760-939-6611

Provided a range data quality assurance program for customers. Compared GPS with radar and other time-spaceposition information instruments. Toured and studied the GPS, radar, and other data acquisition systems very well, as well as the data flow process. I have written and assembled existing computer programs to streamline many program processes. Documented evaluation and operating procedures in an easy to use web-base format.

AUG 1997 to MAY 2001, 40 Hours/Week  
Researcher, 35,000/yr  
UCLA, 405 Hilgard Ave, Los Angeles CA  
Christopher Russell, 310-825-3188

#### Institute of Geophysics and Planetary Physics at UCLA

Designed, built, and deployed GPS-synchronized magnetometer data acquisition systems to observe global electromagnetic resonances. Planned and organized research & engineering to accomplish scientific objective of project. Designed digital and analog interfacing hardware and managed construction implementation. Programmed acquisition system, and processed signal in real-time to visually monitor. Set up LANs and networked acquisition systems to the Internet for fast data retrieval for group. Created data analysis routines in C++ and MatLab programs, also mentored groups to create additional routines.

JUN 1987 to JUL 1999, 20 Hours/Week  
Industry Consultant, Various  
Independent, 3210 Dartmouth Ave, Boulder, CO  
Self, 303-494-3348

Consultant to Industry during my graduate studies. Some clients:

QuakeFinder, LLC, 250 Cambridge Ave., Ste 204, Palo Alto, CA, 94306-1555, Jeannie Sealbach, 650-838-0948.

Researched and wrote NASA proposal to build and deploy ELF/ULF magnetometers along fault zones to investigate tectonic events such as earthquake magneto-seismic emissions, and possible ionospheric effects. Recommended ELF bands for a CubeSat magnetometer, and assisted in calibration for this satellite prior to launch (2002-2003).

Entente, Inc., 1441 Mariposa Ave, Boulder, CO, Alan Mole 303-440-7385.

Translated a Basic language program to C++ that interprets the user's input language, e.g., Spanish, and translates this into English, and vice versa.

Blincoe & Associates, Denver, CO, Ed Blincoe & Associates.

Researched external acoustic detection of fluid levels, to monitor fluid levels in borehole fracture tanks.

Energy Research and Development Administration, Tuscany, Italy, Dr. George Keller, 303-526-7639

Conducted an induced polarization survey and processed data to determine the depth to a permeable limestone layer for geothermal exploration near Larderello, Italy.

OCT 1993 to AUG 1997, 30 Hours/Week  
Research Intern, None; Volunteer

USGS, 1711 Illinois St., Golden, CO 80401  
Ed Sauter, 303-273-8471

Designed & built GPS-synchronized remote magnetometer data acquisition systems for magnetospheric data, analog and digital interfacing hardware. Responsible for expanding network of research collaborators by including Univ. of Calif. at Los Angeles (UCLA) and Space Environment Center (SEC) at NOAA, thus expanding resources and expertise. Planned, organized, and coordinated with additional agencies of US Air Force Academy, Los Alamos National Labs, two Eastern European research institutes, and negotiated with private land owners to deploy and host remote observatory systems to operate to deliver data for long periods. Wrote programming software for both the various acquisition systems and subsequent data processing. Instructed groups on use of hardware and software, and analyzed data for space physics and weather conditions. Overcame tight funding difficulties with initiative, innovation, and organizational skills.

JUL 1984 to MAY 1987, 35 Hours/Week  
Electronics Tech & Eng, \$9/hr  
Ophir Corporation, Lakewood, Colorado  
Loran Nelson, 303-933-2200

Designed and built proto-devices, e.g., radiometers. Designed and built model infrared hygrometer to measure water vapor in helium for nuclear power plant. Designed and built capacitive ice sensor device to measure liquid and solid components of ice, for use on aircraft. Evaluated additional projects.

#### FORMAL EDUCATION:

Post doctorate

Ph.D., Geophysical Engineering, Physics, Colorado School of Mines/UCLA, Golden, Colorado, 1999, GPA 3.50, 67 Hours, Semester  
Masters, Geophysical Engineering, Electrical Engineering, University of Arizona, Tucson, AZ, 1990, GPA 3.62, 32 Hours, Semester

#### SPECIALIZED TRAINING:

OSHA Hazardous Waste Operations and Emergency Response 40-Hour Training Program class.  
Advanced and Life Saving Certified in SCUBA

#### LICENSES/CERTIFICATES:

Registered Professional Engineer in the State of Colorado.

#### AWARDS:

- \* Organize Boulder Polar Bear Club Ice Swim, a large annual event now with over 600 participants in Boulder, Colo. area (1995-present).
- \* Work on environmental and campaign issues each annual election.
- \* Languages: German (advanced), Spanish, and some Russian.

#### OTHER INFORMATION:

**PROFESSIONAL ASSOCIATIONS**

American Geophysical Union, American Inst. of Physics

\* Presentations and papers available upon request

**SUPPLEMENTAL DATA:**

WALTER GOEDECKE

523723078

1. External
2. (1) Delegated Examining Authority (DEU)
3. 09/12/1955
4. Yes
5. No
  - a. Not Applicable
  - b. No
6. No
7. Yes, Career
  - a. Yes, Navy - NAWS
  - b. No
  - c. YD-02, 02/15/2009 to 12/31/2009
  - d. No
  - e. No
8. No
9. 65 WPM
10. 45 WPM
11. Male
12. N

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