



## My Resume

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Walter B Goedecke  
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Ridgecrest, CA 93555

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## EXPERIENCE

**02/2009 to Present** ; 40 hours per Week; Physicist and GPS Analyst ; NS-1310-YD; last promoted Not Specified; permanent employee; not on a temporary promotion; US Naval Air Warfare Station , China Lake; Jean Carlton ; may not contact supervisor.

Provided a range data quality assurance program for customers. Compared GPS with radar and other time-space-position 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.

**07/2004 to Present** ; 40 hours per Week; Adjunct Professor; last promoted Not Specified; temporary employee; not on a temporary promotion; Various Colleges; listed below, James Savard , 303-470-8825 ; may contact supervisor.

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 undergraduate classes in Navigation and Map Use in the Department of Earth and Atmospheric Sciences. Integrated GPS and GIS into the structure of both.
- 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 project development awards in 2006 and 2007, 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.
- 2008 - Won another project development award from Embry-Riddle to design and build a navigation system with IMU for tracking launched payloads; managed students to assist on project development.
- Serve on graduate capstone project committees, advise students, and referee results.

**07/1997 to 05/2001** ; hours per Week; Researcher; \$35,000 per Annum; last promoted Not Specified; permanent employee; not on a temporary promotion; Univ. of Calif. at Los Angeles, Institute of Geophysics & Planetary Physics, 405 Hilgard Ave, Los Angeles CA; Christopher Russell , 310-825-3188 ; may contact supervisor.

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.

**10/1993 to 08/1997**; 30 hours per Week; Research Intern; last promoted Not Specified; temporary employee; not on a temporary promotion; USGS, 1711 Illinois St., Golden, CO; Ed Sauter , 303-273-8471 ; may contact supervisor.

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.

**07/1987 to 07/1999**; hours per Week; Consultant to Industry; during my graduate studies; last promoted Not Specified; permanent employee; not on a temporary promotion; Consultant to Industry (during my graduate studies),

QuakeFinder, LLC                      Palo Alto, CA  
 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.                      Boulder, CO  
 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 (1997). · Ed Blincoe & Associates                      Denver, CO  
 Researched external acoustic detection of fluid levels, to monitor levels in borehole fracture tanks. Worked on mathematical propagation models of compressional and shear waves. · Contracted for design work such as: radio transmitters, power supplies, induction motor controller, programmed a printer-monitoring interface to microprocessor interface board using assembly language. Also repaired a variety of electronic equipment for customers.

**07/1984 to 05/1987**; hours per Week; Electronics Technician and Engineer; \$10 per Hour; last promoted Not Specified; permanent employee; not on a temporary promotion; Ophir Corporation, Lakewood, Colorado; Loran Nelson , 303-933-220 ; may contact supervisor.

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.

## EDUCATION

Florida Inst. of Tech., Melbourne, FL; Master in Engineering Management, with emphasis in aerospace , 2008; 3.83 out of 4 Point GPA; 30 Semester Hours  
 Colorado School of Mines / UCLA, Golden, Colorado / Los Angeles, CA; Doctorate in Ph.D. in Geophysical Engineering , 1999; 3.5 out of 4 Point GPA; 67.5 Semester Hours  
 Univ. of Arizona, Tucson, AZ; Master in MS in Geophysical Engineering , 1990; 3.6 out of 4 Point GPA; 32 Semester Hours  
 Colorado School of Mines, Golden, CO; Bachelor in BS in Geophysical Engineering , 1987; 3.3 out of 4 Point GPA; 124 Semester Hours

## PROFESSIONAL TRAINING

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

## PROFESSIONAL LICENSES/CERTIFICATES

Registered Professional Engineer (PE) in the State of Colorado.

## PROFESSIONAL RATINGS, AWARDS, AND RECOGNITIONS

\*\*None Specified

## OTHER INFORMATION

### ADDITIONAL KNOWLEDGE & SKILLS

Extensive background in electronics and electrical engineering from several years of electronic repair work and many advanced electrical engineering and electromagnetic classes.

Computer skills: C /C++, UNIX, Visual Basic, FORTRAN, HTML experience, networking experience, assembly language

Languages: German (nearly fluent), Spanish, and some Russian.

Organize large annual event in Boulder area and have contributed to miscellaneous activities.

Job-Related Honors, Awards, Memberships, Etc.

American Geophysical Union. Spearheaded and participated in various environmental issues in Colorado and California.

## U.S. MILITARY SERVICE INFORMATION

\*\*None Specified

## ADDITIONAL DATA SHEET

Walter B Goedecke

### 1. Appointment Eligibility:

Yes-Current Permanent Navy Civilian

Current Permanent Federal Civilian Employee

### 2. Citizenship: Yes

### 3. Appt Preference:

Part Time

Term (positions lasting 1 year or more, but less than 4 years)

Not interested/available in any of the above types of positions - only want permanent full time

### 4. Willing to Travel: 6 or More Days

### 5. Vet Preference: No Veterans Preference

### 6. Low Salary Accept: \$65,000

### 7. Qualified Typist: Yes

### 8. Birth Date: \*\*None Specified

**9. Geo Preference:** AZ, Flagstaff ; AZ, Tucson ; AZ, Yuma ; CA, Alameda ; CA, Anaheim ; CA, Barstow ; CA, Bridgeport ; CA, Camp Pendleton ; CA, China Lake ; CA, Concord ; CA, Corona ; CA, Coronado ; CA, Edwards Air Force Base ; CA, El Centro ; CA, Fairfield ; CA, Fallbrook ; CA, Fort Irwin ; CA, Imperial Beach ; CA, Lemoore ; CA, Long Beach ; CA, Los Angeles ; CA, Miramar ; CA, Monterey ; CA, Mountain View ; CA, National City ; CA, Oxnard ; CA, Point Mugu ; CA, Port Hueneme ; CA, Sacramento ; CA, San Bruno ; CA, San Clemente ; CA, San Diego ; CA, San Nicolas Island ; CA, Seal Beach ; CA, Sunnyvale ; CA, Travis Air Force Base ; CA, Twentynine Palms ; CO, Colorado Springs ; CO, Denver ; MD, Annapolis ; MD, Patuxent River ; MI, Ann Arbor ; NV, Fallon ; NV, Hawthorne ; NM, Albuquerque ; NM, White Sands ; OR, Corvallis ; OR, Portland ; UT, Hill Air Force Base ; UT, Magna ; UT, Salt Lake City ; WA, Bangor ; WA, Bremerton ; WA, Everett ; WA, Keyport ; WA, Manchester ; WA, Marysville ; WA, Oak Harbor-Whidbey Island ; WA, Oso ; WA, Port Hadlock ; WA, Seattle ; WA, Silverdale ; GERMANY, Stuttgart ; CA, Chula Vista ; CA, Point Loma

**RACE/ETHNIC STATUS:** White (Wht)

**SEX:** Male

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Deputy Assistant Secretary of the Navy (Civilian Human Resources)  
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