

PHILIP T. FARQUHARSON
3547 Lowell Street
San Diego, CA 92106-1716

Land-line: (619) 224-8463 Mobile: (619) 606-8463

E-mail: resume@philfarq.com

Main Web Sites: <http://geology-guy.com> and <http://cg-squared.com>

EARTH SCIENCES MENTOR

Currently, I am teaching introductory geology lectures and laboratory at Southwestern College in Chula Vista, California, and environmental and physical geology, and oceanography at MiraCosta College. I am also a member of the faculty at InterAmerican College in National City, where I periodically teach Earth and Space Sciences.

I have over forty years experience in geology to draw from in my classwork. My collection of 35-mm slides and digital images includes a great deal of material relevant to my teaching, and I am able to include these images in my course material. I own seven digital cameras and four scanners. With these tools, I am able to convert my older graphics to digital forms for use on the web and in the classroom.

My experience as a graphic artist and web designer contributes to my abilities to explain the sometimes-difficult concepts involved in the earth sciences. I have had a personal and professional web presence since 1996. I now have seven web domains, plus numerous sub-domains. I believe it is my responsibility to share my experiences with the world, just as others have enlightened me in the past.

I consider myself to be an "old-school" geologist, in that I take a very broad view of the science of geology. To me, the study of Earth includes not only solid earth, but the hydrosphere, atmosphere, and biosphere as well. In other words, I subscribe to the Earth Systems Science (ESS) approach.

John Muir was one of my Wisconsin-based heroes. As he said in My First Summer in the Sierra, "When we try to pick out anything by itself, we find it hitched to everything else in the Universe."

I am past president of the San Diego Association of Geologists, and remain active with the organization.

TEACHING EXPERIENCE

MiraCosta College , Oceanside and Cardiff-by-the-Sea Environmental Geology (online), Physical Geology and Oceanography	2008 - present
San Diego State University , San Diego Upper-division Oceanography Lecture	Spring 2008
Grossmont College , El Cajon General Geology Lecture, Introductory Oceanography Lecture	2005 - 2007
InterAmerican College , National City Earth and Space Sciences, emphasis on California K-8 Earth Science Content Teaching Standards	2005 and 2007
Southwestern College , Chula Vista present General Geology Lecture and Laboratory, Introductory Oceanography Laboratory	Jan 2005 -
Antelope Valley Community College , Lancaster BASIC programming	1990
Montana State University Mineralogy / Petrology sequence	1977 - 1979
University of Calgary General Geology, Geology for Engineers, Geomorphology, Environmental Geology	1975 - 1976

PROFESSIONAL ACCOMPLISHMENTS

CG-Squared Productions (Self-employed): San Diego

1996 to Present

Consulting Geologist / Graphic Designer / Software Engineer

- Providing computer and graphics support for the San Diego office of Petra Geotechnical, Inc., creating graphic figures and plates, setting up printers and plotters, cleaning up computers that have been afflicted by viruses and spyware
- Designed and laid out book covers for Sunbelt Publications, and submitted Adobe Illustrator and Acrobat files to the printers via FTP and compact disk.
- Performed aerial and ground-based photography of San Diego County and Joshua Tree National Park geology for the guidebooks for San Diego Association of Geologists field trips, designed the cover layouts, co-authored chapters, and supplied maps, charts and annotated photographs for inclusion in the finished books
- Created and maintaining five business web sites of varying complexities
- Assumed the role of a computer "guru" (*ad hoc* tech support) for numerous customers around the U.S.

Parametric Technology Corporation (PTC): San Diego

2000 to 2002

Senior Software QA Engineer

- Tested a collaborative visualization software product (Windchill ProductView), as part of a QA team that was geographically separated – team members were in Massachusetts, England, Minnesota and San Diego

Autodesk, Inc.: San Diego

1998 to 1999

Software QA Engineer

- Tested a new mechanical CAD/CAM software product (Autodesk Inventor)

Doctor Design, Inc. (under contract): San Diego

1997 to 1998

Senior QA Lead Engineer

- Tested a Digital Satellite System embedded in a personal computer

Wherb Systems, Inc. (under contract): San Diego

1996 to 1997

Project Engineer

- Set up and prepared a document-imaging software and hardware project at the site of a major government customer in Denver, Colorado, working closely with the customer and several hardware contractors

Wonderware Corporation: Irvine

1994 to 1996

Senior Software QA Engineer

- Tested Human-Machine Interface industrial automation software in a Microsoft Windows networked environment, including InTouch, NetDDE, and InTrack
- Helped define the software engineering process by actively participating in committees Installed, configured and maintained databases used in testing: Oracle, Microsoft SQL Server, Dbase, Access

Computervision (under contract): San Diego

1992 to 1994

Software QA Engineer

- Tested CAD/CAM software product in an Alpha and Beta test environment, on Microsoft Windows

CADAM, Inc. / Dassault Systemes of America: Burbank

1990 to 1992

Software Test Engineer

- Tested CADAM modules prior to release, providing feedback to other programmers and management
- Programming special applications (IUE), including self-tests, in the FORTRAN and C programming languages

Boeing: Seattle, Lake Charles and Palmdale**1986 to 1989**Manufacturing Engineer: B-2, A-6, B-1B, KC-135 & 747-400

- Tool liaison / engineering liaison: composite and assembly, sheet metal & machine details
- Project planning: weapons systems, including electrical, mechanical, and ECS
- Functional test/final assembly: fuel & hydraulic systems, structures.

MILITARY EXPERIENCE**Air National Guard / Joint Chiefs of Staff (JCS): Spokane, Biloxi, Anchorage, Manila, Rota
1982 to 1985 (full-time), 1985 to 1996 (part-time)**Communications Computer Systems Control Technician

- Analyzed and controlled Department of Defense communications systems in fixed and mobile environments of JCS exercises
- Protected information systems security through proper adherence to COMSEC and TEMPEST procedures.

U.S. Air Force: Lowry AFB, Dover AFB, CFB Comox and Grand Forks AFB**1967 to 1973**Nuclear Weapons Technician

- Inspected, maintained, modified and tested nuclear weapons, warheads, missiles, rockets, reentry systems, and associated equipment, including clip-in assemblies, rotary launchers, bomb racks and penetration aids

EDUCATION**San Diego State University****1998-2004**

Master of Science, Geology

Montana State University, Bozeman**1975-80**

Graduate Studies. Major: Geology, Minor: Soil Science

University of North Dakota, Grand Forks**1972-75**Bachelor of Science, Geology, *cum laude***University of Wisconsin, Madison****1964-67**

Undergraduate studies. Major: Geology

PROFESSIONAL AFFILIATIONS

San Diego Association of Geologists – Vice President / Field Trip Coordinator

American Association of Petroleum Geologists

Geological Society of America

History of Earth Science Society (HESS)

Sigma Gamma Epsilon (Earth Science Honor Society)

National Association of Geology Teachers

American Association for the Advancement of Science (AAAS)

Association of Earth Science Editors (AESE)

SOFTWARE USED

Microsoft Office Professional components (Word, Excel, Access, PowerPoint, etc.)

Microsoft Visual Basic, various scripting languages based on BASIC and C/C++

Deneba Canvas, JASC PaintShop Pro, Corel Draw

Adobe Creative Suite (Illustrator, InDesign (formerly PageMaker), PhotoShop, Acrobat, Premier)

Plus: whatever it has taken, does take, will take to get the job done!