

**John Thomas Riley, Mr.
(Riley, Tom Riley)**

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(Please send a short email for full contact information.)

Work Experience before Retirement on 02/2014:

NASA Instrument Engineer -- NASA Goddard 08/1989 to 02/2014:

1. Mercury Laser Altimeter (MLA) is a laser ranging instrument for an interplanetary mission.
2. SOLSE-LORE is a Shuttle bay instrument under Hitch-Hiker Jr. Shuttle instruments making limb measurements of ozone. This pair of instruments is testing new ways to measure the Earth's ozone.
3. SIMBIOS provides calibration and validation equipment, data, and procedures for SeaWiFS and other marine monitoring satellites for which NASA/GSFC has data responsibility. I organized and ran the Intercalibration round-robin experiments for ten laboratories around the world that participate in this project.
4. SeaWiFS is the current premier ocean color satellite. Its ocean color maps are used extensively by scientific, environmental, and commercial concerns to determine the biological state of the oceans worldwide.
5. TOMS-ADEOS was one of an 18-year series of satellite flights providing a near continuous monitoring of the Earth's ozone. This American-built instrument flew on a Japanese satellite.
6. TOMS/Meteor-3 is one of an 18-year series of satellite flights providing a near continuous monitor of the Earth's ozone. This American-built instrument flew on a Russian satellite.
7. SSBUV was a secondary payload flown in the bay of the Space Shuttle. It provided calibration measurements for all ozone measuring satellites.

Before NASA:

Lead Engineer -- Research Support Instruments (RSI) 10/1984 to 8/1989
SSBUV was a secondary payload flown in the bay of the Space Shuttle. It provided calibration measurements for all ozone measuring satellites.

Quality Engineer -- Solarex 05/1981 to 04/1984
Solarex is the world's largest builder of photovoltaic cells and power panels for Earth and space applications.

System Engineer -- Multiple Mirror Telescope Observatory 03/1979 to 04/1981

The Multiple Mirror Telescope Observatory was at the time the third-largest ground based astronomical telescope on Earth.

Education:

George Washington University, Washington, DC, M.S., Engineering Management 06/1995

University of Houston, Houston, Texas, B.S., Electrical Engineering, Mathematics 02/1969

I have written computer programs in the following languages: Java, Forth (several versions), machine language (several chips), Basic, GWBasic, VisualBasic, "C", Fortran, HTML, IDL, Excel, and LabView. I have documented computer programs with WordPerfect, Microsoft Word, PowerPoint, and AutoSketch.

I have been the Web Master for two non-NASA Web sites since 1995 and have published two books and several technical papers on the human/computer interface. I have mentored about 20 high school students.

Licenses and Certifications:

Professional Engineering License, Montana 1978

A publication list is available in another file.