Tedd F. Sperling

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Résumé

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Macintosh Programmer

Innovative, practical Macintosh Programmer. Skilled in developing Macintosh application software for all Apple Poducts. Exceptional background in electronics, technical writing, physics, signal processing, computerized peripheral controls, hardware installation, networks, Internet, web sites, databases, and remote sensing. Practical experience in computer applications in businesses, geoscience, medical, and legal disciplines. Proficient in C, C++, Objective-C and others.
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Selected Achievements

Researched and Developed (R&D) the first commercial geophysical micro computer program to provide seismic data modeling for the petroleum industry (MASA© — Micro Assisted Seismic Analysis).

R&D a micro computer program that provided statistical spatial griding and contouring of three dimensional data (TOPO© — topographic contouring).

R&D computer software to optimize quarry remediation (cut and fill methods) by using aerial surveys in conjunction with vertical profile digitization methods.

R&D several seismic data processing and evaluation programs to aid in seismic data interpretation and processing (Amplitude analysis, Fast Fourier Transform analysis, Geophone & Source Array design, Filter design, AVO modeling, Synthetic Seismograms, Klauder & Ricker Wavelet design).

Accredited with the first micro computer oil discovery (Baker 1-24 well, Lee Twp. Calhoun Co., MI — produced over 100,000 bbls oil and 1 BCF gas — published AAPG Explorer — 1984).

R&D computer software to analyze EKG signals by cross correlation analysis with known EKG abnormalities for medical evaluations and computerized diagnostics.

R&D computer software and hardware to provide digitization and measurement of cell structures in optical microscopes for medical and biological investigations.

R&D computer software and hardware to provide dynamic three dimensional digitization of the residual limb in above knee and below knee amputations for optimum prostheses socket design.

R&D intelligent computer software and hardware to control jeweler's ovens for gold castings. Used fuzzy logic to determine temperature profiles (temp v. time v. material) in oven for wax burn-out.

Designed several AI programs (rule, knowledge, inference based, and fuzzy logic systems) to monitor user input and render intelligent assistance in various computer program applications.

Provided data acquisition, computer analysis of data, and generated technical support evidence and proofs for court proceedings, law suits, and other legal investigations. Also provided technical displays and accompanying expert witness testimony.

Published 18 professional papers and made 15 professional presentations on practical micro-computer applications and results of various research projects. Authored several research Federal funded Grant proposals.

Experienced in all elements of remote sensing computer applications (i.e., temperature, humidity, pressure, strain and force, flow and level, pH and conductivity, data acquisition, and controllers)

Education

Michigan State University	Master of Science
California State University	Bachelor of Science *(honors)*
Los Angeles College	Associate in Arts *(honors)*