

David E. Lieberman
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OBJECTIVE: Software engineering contracts in Windows® 32 and 16 bit platforms for biomedical, scientific or business applications.

PROFESSIONAL EXPERIENCE:

1984 to Present

Physio Systems, Inc., (dba *Computer Methods*) Fremont, CA
Owner - Provide contractual services for software engineering and support of PC-based systems in biomedical and industrial applications. Clients and projects include:

- ◆ *Biodex Corporation, Shirley, NY* -- Biodex manufactures medical equipment for physical therapy and sports medicine clinics. We provide contract software services (1/96 to present) for development of applications to support:
 1. Develop and maintain a 32-bit application “**System3**” (Visual C++ 5.0 w/MFC) to interface a sports medicine isokinetic dynamometer for assessment of muscle strength. Project includes development of drivers to interface with dynamometer, GUI design, production of multimedia AVIs for on-line training and internationalization of application in seven languages including Japanese and Russian.
 2. Develop and maintain a 32-bit application “**Atomlab**” to interface a multi-channel analyzer for measurement of radioactivity from nuclear medicine isotopes used to assess thyroid function. Application is also used to monitor Nuclear Medicine clinics for radioactive contamination and fulfill reporting requirements of the FDA and other governmental regulatory agencies.
- ◆ *Spectral Dynamics (DSP Division), San Jose, CA* – DSPT manufactures high-speed data acquisition systems. We provide contract software services (4/99 to present) to the *VXI Product Group*. Projects include:

PROFESSIONAL EXPERIENCE (con't):

1. Support a sixteen bit "C" Windows application called IMPAX which acquires and post-processes high-speed analog signals – typically for automotive safety crash testing labs.
 2. Port the 16-bit IMPAX application to 32-bit Windows NT/2000/XP platforms in Visual C++ / MFC including applications software and device drivers for a variety of VXI and CAMAC devices. Interface to VXI devices using National Instruments NIVXI and NIVISA libraries.
- ◆ Kaiser Aluminum, Pleasanton, CA - Provided contract software services (6/95 to 6/98) to several of Kaiser's research units. Projects included:
 1. Created 32-Bit MFC application (Win 95, NT) to continuously monitor and display (in real time) defects present on the surface of aluminum coils.
 2. Developed a Visual Basic interface for an aluminum coil slitting machine used in a cold mill plant. The interface supports touch screen control, laser surface inspection, metal gauge measurement, ODBC database base support and medium speed signal acquisitions.
 3. Developed a 16-bit Win 3.1 C++ program which mathematically simulates the chemical process of cell reduction in an aluminum smelter.
 - ◆ Decibel Instruments, Hayward, CA - (1/95 to 6/95) Rewrote and continued development of an existing Windows ® 3.1 SDK application to administer a speech perception examination.
 - ◆ WorldTalk, Santa Clara, CA - (1/96 to 4/96) Developed a customized install program for client's E-mail integration product.

1980 to 1984

Diasonics, Inc. Milpitas, CA

- .. **Software Manager/Engineer** - Supervised a team to develop software for acquisition, display and post-processing of image data acquired from digital subtraction angiography systems.

- .. **Product Manager** - Designed an off-line ultrasound image review station with image archival, retrieval and quantitative functions..

1972 to 1980

Medical Data Systems, Ann Arbor, MI

Software Engineer - Developed image processing software for Nuclear Medicine applications.

ENVIRONMENTS:

WIN XP/NT/2000/ME/98/95, 3.1, Microsoft Visual C/C++ V5-V6, V1.52c with MFC, VBScript, ASP & HTML, Visual Basic V4-V6, Access, DAO, ADO, API and SDK, VBX and Custom Control DLLs, Borland C/C++ V4.5, Quinn Curtis Graphics, Borland Pascal 7, ObjectWindows (OWL), Paradox, ObjectPAL, PC BIOS, 8086 Assembler, MASM, Modula-2, FORTRAN

EDUCATION:

MSEE - 1978, **BSEE** - 1976, The University of Michigan, Ann Arbor, Michigan

PUBLICATIONS:

Lieberman, David E., *The Fundamentals of Digital Nuclear Medicine*, The C. V. Mosby Company, St. Louis, MO 1978

PATENTS:

Signal Processor for Personal Computers (#5,133,055); David E. Lieberman; G. Mark Remelman

PERSONAL:

Single, Age 49. Hobbies include Amateur Radio (call sign KT8E), Martial Arts (Black Belt), Scuba Diving, Golf

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