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### **Expert Qualifications:**

I have worked in the commercial-industrial electronics and professional audio-visual industry for the last thirteen years. Prior to my work in commercial industry I worked in the aerospace industry for another approximately 10 years where I was responsible for a number of highly sophisticated, government classified sensor and imaging projects. Prior to my government and aerospace work I was involved with analytical, scientific research regarding spectroscopy for a number of years.

I have been involved with electronic systems, detectors, measurements, sensors, projectors, displays and imaging apparatus for close to thirty years. I have been involved with all phases of the development of various kinds of electronic systems, including conception, invention, development, marketing and sales. I have prepared specifications, negotiated with various customers over system or component requirements and specifications, and prepared or negotiated over tests and measurements of these systems or their separate components to insure that the specifications or requirements have been or will be meet. I have prepared and negotiated development contracts and subcontracts for such systems or for their electronic components.

### **Publications:**

- 1) I have written a monthly column for "Presentations" magazine on image quality and performance of professional audio visual equipment

for approximately seven years. I have written semi-month features and columns for eMedia magazine for approximately three years.

- 2) I have written occasional feature articles about audio-visual industry technical trends for various magazines such as "Presentations Magazine", "eMedia", "Information Display" and "Electronic Design" for approximately the last ten years.
- 3) I have written occasional feature articles for "Pacific Media Associates" about technical trends in the audio-visual industry and about the image quality performance of selected audio-visual products for approximately the last ten years.
- 4) Occasionally some of the above articles have been excerpted or used in other publications such as United Airlines in flight magazine, "Horizons".
- 5) My opinions on various products are occasionally quoted by various manufacturers in their new product announcements.
- 6) I have approximately 6 issued US patents in the field of information displays and their manufacture and use. Several foreign patents have been filed based upon these US patents.
- 7) I have written private, confidential reports on electronic display products, components and related technical developments for a variety of customers for the last ten years. My customer list includes: IBM, Apple, Texas Instruments, 3M, Kodak, Xerox, OCLI, In Focus, Proxima, Electrohome, Epson, Panasonic, Mitsubishi, Eiki, NEC, JVC, Sarif, Silicon Light, SVison, COLOR, Barco, Hughes-Elcan and Quantum Image and others.

## **Resume**

### Education:

BA Mathematics, Graduate work in Mathematics, Physics and Computer Science, Language Studies in French, Arabic, Spanish, Japanese and Chinese.

### Publications:

Monthly display product review column in Presentations and eMedia Magazine, various miscellaneous articles in other magazines and journals.

### Patents:

Approximately 6 issued US patents and various foreign patent applications in display technology.

### Experience:

Planet ATE 2001 - 2009: Co-founder and Vice President (acquired by Intersil in 2008)

Planet ATE develops and manufactures specialized integrated circuits (IC) used in industrial semiconductor manufacturing and test equipment. Planet ATE IC functions include driver, comparator, timing adjust and parametric measurement. Targeted equipment includes IC test, wafer test, package test, test and burn-in equipment.

I am responsible for marketing, sales and contract negotiation with customers in Japan, Korea, Taiwan, China, Singapore and Hong Kong of specialized ICs used in industrial test equipment. Duties include demonstration and verification of IC and system performance, verification of meeting customer's requirements at component and system level.

Customers include all the major and minor producers of IC and wafer test equipment such as Agilent, Advantest, Yokogawa and Credence as well as in-house IC test equipment for companies such as Samsung, Sharp and Rohm.

Manx Research 1994 - present: Chief Scientist and Principal.

I manage and perform technology, business assessment, development and international trade contracts for corporate clients and publications. Among my magazine clients are Pacific Media Associates, Lakewood Publications, eMedia, Electronic Design and Journal of Information Display. Among my U.S. corporate clients are Texas Instruments, 3M, IBM, Kodak, Rockwell, Edge (Semtech) Semiconductor, Epson America, In Focus Systems and Proxima. My international clients include JVC, Panasonic, Daewoo, Eiki International, Kodak Germany and many others.

#### Current Manx Research Projects

Semiconductor -- I managed the Asian (Japan, Korea and Taiwan) market development for Edge Semiconductor (a division of Semtech). Edge makes specialized ICs used in test equipment. My work involves several trips per year to Asia -- meeting with Asian customers (the major IC and test equipment manufacturers) and negotiating custom IC development contracts. I also gather IC production equipment related technical and market information. Note: these activities are now part of Planet ATE and have been taken over by Intersil.

LCD -- I manage and conduct several projects to collect information (technical and market) on the Japanese and Korean LCD industry. This involves interviewing (in Japanese) all of the major LCD manufacturers several times a year to gather insights on technology and pricing trends. This information is compiled and disseminated in private reports.

Display Products -- I manage and conduct detailed technical product evaluations for all kinds of display products -- LCD direct view, Projection products of all types, CRT products and Plasma products. The various products are evaluated at Manx Research's facilities and in the manufacturer's facilities. I maintain a data base of product performance and report upon the results and comparisons in various publications both private and public.

Miscellaneous -- I manage and conduct various projects in international trade and marketing as well as help with Japanese-U.S. trade negotiations for companies. I negotiate Japanese investments in U.S. technology as well as evaluate technology for various products or concepts.

#### Past Manx Research Projects

I have completed business modeling and analysis studies for display component manufacturing. This study involved several trips to Japan to meet with all of the major suppliers of display component processing and manufacturing equipment and to gather material and equipment information, pricing information and equipment installation and maintenance data. I developed a detailed 5 year business model of the proposed operation from sales, distribution and marketing to manufacturing including staffing models and process flow models.

I have also completed contracts for medical imaging component development and procurement, LCD materials and process equipment development and procurement, projection equipment development and procurement, LCD controller market analysis, LCD component market analysis and laser diode marketing and applications.

Computer Accessories/Proxima 1989 - 1994: Chief Scientist for Display Products. I tracked liquid crystal display (LCD) and other display technology worldwide with special emphasis on Japan. I defined the company's technology directions. I obtained and evaluated samples of all current and future production LCDs. I developed extensive Japanese business and academic contacts for LCD technology. I worked closely with several Japanese companies and laboratories to develop new products and test existing LCD products. I established the company's Japanese distribution system together with a Japanese trading company. I defined the company's intellectual property directions and strategies and have several patents issued and applied for in LCD technology. I was responsible for directing the company's patent, trademark and litigation activities.

TRW 1983 - 1989: Program Manager for hardware (including displays) and software development of advanced network of computer controlled signal processing systems. Program Manager for Artificial Intelligence systems for signal processing and mission planning using both rule based and neural processing techniques. Advanced Business Manager for Artificial Intelligence business areas. Also responsible for hardware and software interfaces and computer architectures for complex avionics systems.

Hughes Aircraft Co. 1980 - 1983: Sub-Program Manager for computer controlled laser pointing and tracking system used in airborne applications. Responsible for all development and flight testing of controls, display, hardware, software and system interfaces within a very complex avionics system. I also performed system engineering for LCD projection systems and radar processing systems.

Kappa Systems 1979 - 1980: Responsible for data processing and analysis of Ballistic Missile Early Warning System (BMEWS) evaluation.

Science Applications 1976 - 1979: Responsible for all phases of Data Processing used in qualitative and quantitative analysis of materials with neutron activation and gamma ray spectroscopy.