

IEEE Consultants' Network of Long Island

An alliance of highly-qualified independent professionals

The following directory is a listing of electrical, electronics, mechanical and software engineering consultants serving Long Island and the Greater New York City area.

Also known as the LICN, this is a nonprofit professional organization affiliated with the Institute of Electrical and Electronics Engineers. Our members include forty electrical, electronic, mechanical and software engineers with expertise in over sixty-five categories of technology and business. All are members of the IEEE and adhere to the IEEE professional codes of ethics.

No fee is charged for using this directory. Additional free referral services such as searching by skill or keywords are available at our web site www.licn.org.

Each member of the Network is an independent consultant and negotiates his/her own consulting agreement.

If you are a member of the IEEE and think you might be interested in joining our network please visit our web site at www.licn.org where you will find directions and assistance.

We meet on the first Wednesday of each month and feature speakers addressing issues in technology and related business issues. More information is available at www.licn.org.

How to reach us

You can contact each consultant directly using the information in this directory.

You can call us at 516-379-1678 to discuss your requirements. Qualified consultants will respond to your enquiry.

You can go to our web site at www.licn.org and search for consultants by the type of skill you require. It provides all of the information contained in this directory.

About this directory

LICN members are listed in alphabetical order. Each listing includes contact information, a list of representative skills and a brief description of the practice. A skills matrix on pages 3 and 4 will help you make a selection.

What to expect when you contact one of us

Our members understand that a prospective client's first concerns are cost and qualifications. Feel free to discuss these concerns frankly.

The consultant will want to know as much as possible about the technical, timing and economic requirements of your project before offering estimates. Non-disclosure agreements are usually not a problem. Our members are accustomed to working with written agreements that spell out such things as project specifications, deliverables, rates, ownership of intellectual property and non-disclosure of confidential information. Documenting these details in a business-like manner maximizes the chance of a good outcome.

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WWW.LICN.ORG 516-379-1678



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Thirty-nine engineering consultants are listed in the following pages.

Some of the skills they can provide are:

Acoustics & Audio	Financial Systems	Optical Electronics
Antennas	Fluid Mechanics	IR & Lasers
Analog Circuits	Fluid / Pneumatic / Hydraulic	Packaging
Automatic Test	HVAC	Particle Accelerators
Automation	Human Factors	PC Peripheral Design
CAD/CAE/CAM	IC / ASIC Design	Power Supplies
Circuit Board Layout & RFI	Image Processing	Project Management
Compliance Engineering	Industrial Process Control	Proposals
Computer Systems	Laboratory Facilities	Publishing, Mailing
Control / Servo Systems	Lab Automation / Control	Quality Assurance
Data Acquisition	Light and Illumination	RADAR
Data Recovery	Machine Design	RF Design
Data Telecommunications	Mgmt Consulting & Mktng	Reverse Engineering
Digital Design	Maritime / Navigation	Robotics
Diagnostics / System Test	Mechanical Systems	Safety
Electromagnetics	Medical Equipment	Semiconductor Engineering
Electromechanics	Microprocessors	Sensors / Transducers
Electronic Warfare	Microcontrollers	Signal Processing / DSP
Energy Conserve. & Mgmt.	Microwaves	Simulation
EMI, RFI, EMP/Tempest	Military Systems	Software Development
Expert Witness	Military Electronics	Technical Writing / Pub.
Expert Systems	Mold Design	Thermodynamics
Failure Analysis	Networks, LAN / WAN / MAN	Training Programs

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Signals In Motion

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**Analog and Digital Hardware design including embedded micro-controllers
Software development C, C++, JAVA, Labwindows CVI, Matlab, and Mathematica.
Embedded micro-controllers and Digital Signal Processing 8051, 6805.
Systems and circuit modeling and Simulation in Spice, Simulink and Mathematica; Fresnel lens
design**

Len is skilled in Product Research and Development, Specification, Analysis, Simulation modeling, and technical documentation. He is experienced in Project Management. and specializes in low cost, high volume sensors design. He received a congressional award for his effort in developing an innovative Infrared Earth Sensor under a NASA SBIR contract. The device was tested on the STS-85 NASA/DASA scientific mission and showed his simulation of the earth's atmosphere was accurate.

He has always engaged in total system design and has consulted on many successful programs involving commercial, military and space applications. He is very familiar with IBM PC hardware and application software including Networks in Windows 95 and NT.



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PATENT TECHNICAL EXPERT, MANAGEMENT CONSULTANT
RF, Microwave, Telecom, Satellite, Broadband, Optics

- Technical expert/adviser for intellectual property/patent attorneys and principals
- Successful prior art researcher
- Fellow IEEE, prolific author, multimillion dollar proposal writer/manager, listed Who's Who in America
- Consultant in high-technology, business development and management aspects of telecommunications electronics
- 30 years experience; co-founded successful high-tech electronics company (Vice-President, board of directors, P & L)
- Proven track record in management, marketing/business development, innovative product definition, system design
- Technical / financial risk assessment, due diligence, strategic alliances, M & A
- Fluent English, German, French



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The Consulting Group
124-06 Metropolitan Ave
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**RF & Microwave Circuit design, PLL/Synthesizer design, Antenna design, Analog Electronics,
Medical Equipment.**



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ELECTRICAL ENGINEER AND REGISTERED PATENT ATTORNEY



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Essex Systems

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Chairman LICN 2011

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**Research and Development, Electro-mechanical Systems, Dynamic Analysis & Modeling,
Instrumentation and Control, Embedded Microprocessors**

Forty years of experience with electro-mechanical actuators, sensors, signal processing, analog circuit design, closed-loop control, optics, ultrasonics and magnetic circuits. I've designed, power amplifiers, ultrasonic power supplies, magnetostrictive transducers, optical sensors, ball-screw motion platforms, tension controls, lateral registration controls, nuclear sensors, force sensors, special microphones, data acquisition systems and process control systems. Recently, I've designed embedded microprocessor controllers for several high-volume consumer appliances. Also experienced in the mechanics of web handling - lateral registration, tension control and wrinkling. Trained as a physicist. Worked as an engineer. Understand business issues. Welcome unusual problems requiring creative solutions.

Software Tool Expertise: Proficient with: Autocad - mechanical layouts; Mathcad & Matlab - analysis and modeling; Orcad - schematic capture, Labview & Testpoint - data acquisition; PDEflex - PDE solver for multi-physics modeling; MS Office for general communication.



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Electronics Consultant

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Specialist in power electronics: special-purpose power supplies, both linear (some low-noise, high stability) and switched-mode, high- and low-voltage outputs, analog and digital circuitry.

Supplies operate off single-phase or 3-phase AC or DC. Can design magnetic components and perform optimal configuration of overall, multi-output power system utilizing either purchased or in-house-designed power modules. Cost tradeoffs drive the choice. Design and analyze digital and low-level/high-level analog circuitry, for airborne and ground equipment, benign and hostile environments. Model analog circuits in P-SPICE, and do accuracy analysis.

Extensive experience in clear and concise documentation. Write reports, procurement specifications and test procedures. Familiar with MIL specs for components (capacitors, magnetics, resistors, semiconductors) and for systems. Have developed MIL and non-MIL electronics, specially configured for the customer. Follow design through packaging and production. Review PC layouts and wiring. Supervise debugging of breadboard and final hardware test. Design test jigs and test setups.



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First Vice Chairman LICN 2011

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Microprocessor Hardware and Software Embedded Design
Analog and Digital Circuit Design
Troubleshooting - Hardware and Software
Microcontroller training courses

Full consulting services for top down design and complete documentation for hardware/software projects. Microprocessors: Motorola, Microchip (PIC) Intel, Philips and others. Software: Assembler, C/C++. Digital Design: TTL and HCMOS, 3.3/5.0 volt, through hole (DIP) and SMT. Analog: DC to 80 MHz.

Development facilities to perform Software development - Flow charting, coding, compiling, debugging, LINTing and ICE (in circuit emulation). Hardware development - circuit design, OrCAD schematic capture, breadboarding, prototyping, debugging. Systems design and analysis.

Extensive experience in industrial instrumentation, battery powered measurement devices, control, medical electronics (including hazard analysis and software validation), design for TUV, CE mark validation, high reliability software design, image processing, digital signal processing, extended temperature design, air traffic control, data compression, system simulation, digital mapping, electro-optics, communications.



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Electric Power Engineering, NERC Compliance, Reliability Standards for Electric Systems



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Microprocessor hardware and software embedded design

C, Assembly and LabWindows CVI

Analog and digital circuit design

Schematic capture and PCB design using Cadence, PADS and Ivex tools

Cost effective circuit design for automated testing and high volume production

Development of wireless embedded systems containing narrowband and WLAN radios

Training and educational services

Full consultation from conception to production. Services include theoretical analysis, microprocessor/compiler benchmarks, hardware and software development and documentation, test fixtures, and production support. Primary experience is with Microchip, Motorola and Toshiba microcontrollers.

Design laboratory to develop hardware and software using schematic/PCB CAD tools, in-circuit emulators, C compilers, etc. Experience soldering fine-pitch surface mount components. Experience with RF spectrum and network analyzers, logic and protocol analyzers, bit-error rate machines and digital oscilloscopes.



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Jr Past Chairman/Program Chm LICN 2011

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Analog Design, RF, Switchmode and Linear Power Supplies, High Voltage, Transformer Magnetics, Thermal Management, Sensors and Patent Research

More than forty years of design experience in services to over a dozen military and industrial corporations in multiple electronic disciplines including analog (low noise audio, power audio, temperature measurement, electrocardiogram recordings, etc.), power supplies (low voltage to 100 amperes and high voltage to 100,000 volts), HF/ VHF/ UHF equipment, uP development and debugging, test instrument design and test program development.

More than forty technical items published in the trade journals. Items appearing in Electronic Design Magazine's "Ideas For Design" column won their "Best Of The Issue" award on four occasions. Teaching experience. Has lectured adult classes in mathematics and in electronics theory.



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SW/HW Design, Product Development, Application Porting, Re-Engineering, UNIX (all dialects), DOS, Windows, VxWorks, OS/2, VMS, C/C++, FORTRAN, Pascal, Device Drivers, OS & Compiler Design, Real Time Embedded Systems, Communications, Echelon Lon Works, DBMS, GUIs, CAE, CASE, Design Reviews

Early Electronics is known for using time tested SW engineering methods to develop quality programs - on time and under budget - even when working in fast paced production environments.

Using "Object Oriented techniques" we are often able to build far more maintainable, flexible, and feature rich systems at a lower cost than what others charge for "one-shot hardcoded" systems.

Our extensive UNIX experience, dating back to 1977, allows us to provide "open" solutions that run on a wide variety of computer architectures. We provide services on HP/Apollo, Sun, IBM, DEC, NCR, Macintosh & PC computers for the banking/financial, manufacturing, military, and scientific/research markets. In addition to software design and development, we also provide system administration, computer security, quality control, training, and project management services.

We are available for short or long term projects using either our development facilities or yours.



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Custom software design: Windows, Web and handheld Applications. Specialize in motion control and manufacturing automation. C, C++, C#, Asp.net, Java.

Areas of experience include: Online Order Entry, Freight/Courier Management, 2D and 3D Image Processing, Geographic Information System, Online Gaming, Financial Education, Online Job Search and Job Application, Motion Control and Manufacturing Automation, Manufacturing Process Management, Equipment Management System.



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Switching Power Supplies, Electro-mechanical Servo Controls, Magnetics, Thermal Design & Interface, Expert Witness & Technical Investigations for Insurance Companies & Lawyers

A results oriented, fundamental engineering capability with an excellent track record across a broad range of engineering disciplines. The record includes timely development of deliverable hardware, unique and creative solutions to engineering problems and 100% liability awards based on forensic engineering studies and court testimony.

Awarded several academic honors and published numerous technical articles; the latest article, based on a highly efficient patented capacitor amplifier, was published in EDN.



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Developer of innovative solutions to high-tech residential & commercial security systems, with some concepts carried through to patent issue and production. Expert in low power, wireless sensor design. Proposal preparation, analog & digital circuit & system design, low powered & wireless circuitry, security and instrumentation sensors. Military & hi-volume commercial electronic design. Hardware, Firmware and Software Development. Extensive background in digital design enhanced with a wide range of all around in-depth, practical, hands-on experience in many disciplines.

Expert in digital state machine design and implementation with programmable logic devices and arrays. Proficient in vendor liaison, specification of complex electronic subsystems, custom integrated and hybrid circuit acquisition. Skilled in writing winning technical proposals that have resulted in obtaining new business in a highly competitive environment. Expert in PC applications, publishing, installations and skilled in the use of a wide range of programs and utilities.

Mr. Katz is an expert in the design and development of PIR Motion Sensors. He is a specialist in filter and amplifier design for motion sensor applications and frequency equalization optimization to extend performance linearity and sensitivity, especially for slow and very fast moving targets. These Motion Sensor design techniques are extremely relevant for the design of Occupancy Sensors, low power Motion Sensors, Request to Exit sensors and other pyroelectric detector based products. Expert in the design, development and testing

Consulted for many years on a wide range of technical problems ranging from EMI abatement, phase lock loop development, POS scanner, new business adviser, computer game technology, security systems, video processing and wireless remote controls. Extensive experience in conversion circuitry, Digital Signal Processing, embedded microprocessor design, display generation, sonar circuitry, spectral analysis, database development, assembly, higher level language programming, firmware development and a broad field of electronic and electro-optical and electro-mechanical projects. Mr. Katz has a BSEE degree from CCNY and over 44 years of Engineering experience.



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Sr Past Chairman LICN 2011

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Technical Writing/Training

Hardware/Software/Multimedia Documentation

Development of technical manuals, computer-based-training programs, and interactive simulations for training on high-tech equipment and manufacturing processes.

Murray Kleiner Associates, Inc. is a consulting firm providing technical writing services for all businesses with special emphasis on engineering, manufacturing, and IT. We develop user-friendly documentation for all levels ranging from engineers, scientists, and technicians to individuals with little or no technical experience. We create fully illustrated user, service, and training manuals for hardware and software applications. Computer-based-training is also an important part of our services and includes interactive multimedia simulations—ideal for classroom and self-instruction and for offline training of complex or hazardous equipment.

The company's founder and president, Murray Kleiner, has an electrical engineering background and is experienced in hardware and software development and integration. Some of the equipment and processes for which we developed documentation include: medical electronics, heating systems, industrial induction generators, power supplies, product testing equipment, traffic systems, hazardous leak detection equipment, network protector relays, electro-optical equipment, ion beam deposition processes, and fiber optic extrusion processes.



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Over 30 years experience in military and commercial microwave, MMW, ECM and RADAR system design including receiver, transmitter, exciter and power supply design; receiver dynamic range prediction and optimization; installed antenna performance and DF accuracy assessment on full-sized A/C; anechoic chamber optimization by Spatial TDR techniques; antenna design and antenna RCS optimization; EMI/EMC measurement and improvement; spectrum analysis and spectral purity assessment; RF biohazard assessment; ground station G/T assessment; noise power density analysis of cryogenic and folded-spectrum receivers; high power RF sub-nanosecond pulsing techniques; TWT HPAs and power supplies; high power VNA accuracy improvement techniques; microwave propagation; radio tower installations; lightning protection; s/w algorithm development. Senior Member of the IEEE; 30 year membership in MTT and AP; Ten articles published on transmitters, antennas and antenna testing techniques; IEEE Region 1 Award for new technical concepts

Proposal concept development and innovative system design developed to fit the scenario.



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Secretary/Newletter Editor LICN 2011

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URL: <http://www.SeaLevelControl.com>

Searching for solutions to the problems of rising sea level, hurricanes, and drought.

Sealevelcontrol.com is concerned with studies, consulting, teaching, feasibility analysis, design, and technical writing leading to combinations of solar thermal engineering, photovoltaic systems, renewable energy, ocean current energy, and energy conservation whose purpose is to achieve a greater measure of human control over the level of the oceans, the availability of clean fresh water, and the quality of the environment.

Experience includes: fluid mechanics, hydrokinetic turbine design, oceanography, climate science, wave-powered pumps, solar thermal design, photovoltaics, electric vehicles, energy conservation, heat pumps, antennas, microwaves, filters, low noise amplifiers, surface acoustic wave devices, signal processing, waveform generation, HVAC, microphone wind screens, semiconductor devices, intermodulation theory and measurements.



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WebMaster LICN 2011

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Software Development and Maintenance in C, C++, Java, Perl, Alpha5, MySQL, Oracle and HTML;

Data Base Publishing: Catalogues, Mailing and Marketing Support; Internet Home Pages; Windows, Unix and Linux Software and Hardware Installation, Integration, Upgrades and Training.

My team has 20 years experience developing customer specific applications using C, C++, Java, Perl, Alpha5, MySQL, Oracle and HTML for private companies, public utilities and academic institutions. We take pride in our ability to interact with all levels of management and staff throughout the process of identifying and analyzing needs and designing and implementing an effective solution that improves productivity.

We personally use and install, integrate, upgrade and supply training on the use of most popular applications and hardware under Windows, Unix and Linux operating systems. We also offer assistance on more specialized applications such as: Data Base Publishing, Voice mail, all phases of Internet Access and creating and maintaining Internet web sites.



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Products and Services:

- **Complete turn-key product development and / or consultation with your team at any point in the process**
- **Complete design / drawing packages for manufacture, including manufacturing support**
- **Custom design, build, test and shipment of product**
- **Product integration**
- **Management of technical programs**
- **Training**

Circuit and system design including:

- Military, Industrial, Commercial
- analog, digital, RF
- PWB, die, chip & wire
- DC to 18 GHz
- high speed, low noise, high density
- data conversion and processing, A/D, D/A
- embedded CPLD and FPGA design - coded in VHDL
- designs for compliance -- UL, CE
- automated test
- cost reduction
- analysis and simulation
- research and development

Over 24 years of diversified experience in low and high voltage power supplies, UPS, helium leak detection, video and displays, radar, air traffic control systems, satellite communication components and systems, RF / microwave products and integrated components, EMI / RFI suppression and testing



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Complex Data Analysis, Instrumentation, BioMedical Imaging, Simulations of Biomedical Systems, Systems Planning, Database design, Data Acquisition, Filtering, Modeling, Simulations, and Presentations.

MatLab, Mathematica, Fortran, C, Basic, Visual Basic, SPSS, SAS, DesignCAD, Corel Draw, PhotoPaint, Access, PowerPoint, EXCEL, VM, UNIX, DOS, WINDOWS

All aspects of Data Acquisition, Measurements, Instrumentation, Analysis, Statistical Analysis, Data Simplification, Summary and Presentation, Biomedical Systems, Simulations and Modeling



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Project Management, Contract Negotiation, Outsourcing, Product/System Definition



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MIL-STD-461, MIL-E-6051, FCC, CE, TEMPEST, EMP, Lightning

R. J. Mohr Associates, Inc. specializes in providing design support in Electromagnetic Compatibility (EMC), and in related areas, on both military and commercial programs. Competent support can be provided at all program phases, from proposal, through design, deliverable documentation, and qualification tests. R. J. Mohr Associates, Inc. can provide training seminars to orient all levels in the EMC discipline.

R. J. Mohr Associates, Inc. has been in business for over 25 years providing services to more than 30 companies, including most of the major aerospace companies on Long Island and vicinity.



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Circuit design and development, system design, feedback control, instrumentation, project management, Labview, EMC

Over 40 years experience in the field.



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Embedded Software & Product Design, new product design, refreshing existing products, reverse engineering, feature enhancement, disaster recovery (getting projects back on track)

Whether finding new design approaches to existing products, refreshing an existing design or reverse engineering a product, we take an approach to embedded software and product design that will save the manufacturer time and money. New products are designed using the most cost effective and appropriate technology. As components of a product become obsolete, their continued manufacture becomes a challenge. We find new, often simpler, less costly solutions using current technology.

When a manufacturer wishes to emulate an existing product, we can reverse engineer the product no matter how challenging the technology. Occasionally a manufacturer may wish to upgrade or expand upon existing products. Our expertise in current technology allows us to present the optimum design choices to our customers. Our innovative solutions can get stalled projects back on track. This helps to avoid budget disasters and lost sales due to being late to market.



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Electrical Design/Construction

Development of CAD Systems, Cable TV Networks Design

Instruction of National Electrical Codes

Electrical Power Surveys provided for determination of electrical power utilized at commercial facilities. Training provided to the building managers on the regulation of power consumption. Development of electrical construction software intended for use by architects, electrical engineers and contractors.

On-site training provided for use of computer.



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Network Infrastructure Design, Configuration, Implimentation, Optimization, and Operations consulting.



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switchmode power electronics, magnetics design, analog design, patent review, expert witness

I am a specialist in the design and analysis of switching power supplies and general power conversion systems. My many years experience spans ten's of watts to 35 KW 3 phase inverter AC sine wave sources. I have designed high density, high performance power supplies for space applications, as well as electronic ballasts for HMI and Xenon high intensity lamps.

I am capable of the complete electrical, mechanical and thermal design and project management, of electronic power conversion systems. In addition, I have considerable background in magnetic component design, from power line frequency types [50/60 Hz/400Hz], to the high frequency magnetics components used in switching power supplies, including high frequency magnetic amplifiers.

I have also had significant success in simulating high frequency power switching circuits using the PSPICE simulation tool.

In addition I have extensive background in analog circuit design and simulation



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Mixed Signal and Analog Processing, SPICE simulation, Analog and DSP Control System, Instrumentation, Avionics, Test Systems, Mixed Signal and Analog ASIC, Hybrid Microelectronics, Medical Instrumentation.

Steve brings more than 20 years of experience to the design of control systems, instrumentation, DSP motor control systems, and design for manufacturing. Experience varies from commercial and military avionics, to atomic power plant instrumentation, to medical ECG test systems.



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Analog, digital, feedback, controls, sensors, interface, phase lock loop, hybrids, microprocessors, infra-red, signal conditioning, active filters, R.F., low noise, ECL, motors.
BSEE - Columbia University, MSEE - Polytechnic University

Irwin has a wide range of experience in analog and digital circuit design, implemented in the most modern techniques for both small and large scale manufacturing. He designs both products and systems. His designs cover the range of D.C. to 1 GHz, including R.F. He is proficient in the design of instrumentation, signal conditioning, and data acquisition circuits for low output transducers such as thermocouples, thermistors, strain gauges, and pyroelectric devices. Irwin also interfaces these designs to computers and data systems using embedded microprocessors.

As a consultant, Irwin is often called upon to solve problems such as ground loops, oscillations, noise, drift, component manufacturing tolerances, etc. in existing products. Irwin makes effective use of the CAE/CAD capability at his own facility. He delivers the final product in the form of breadboards, prototypes, final manufacturing drawings, or floppy disks. Irwin is also available to provide expert testimony in patent litigation.



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- . Keyboard controllers
- . Analog and Digital Filter design
- . DSP algorithm implementation using TI TMS320C62xx and FPGA platforms
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- . Communication Systems Design
- . PCB Design and Layout



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