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# **Directory of Consultants and Consulting Services 2003**

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Philadelphia IEEE  
Consultants' Network

[www.phila-ieee-consultants.org](http://www.phila-ieee-consultants.org)

email: [conet.phila@ieee.org](mailto:conet.phila@ieee.org)





Electronic Power Conversion  
 Power Supplies, AC/DC  
 Power Supplies, DC/DC  
 Power Supplies, High Reliability  
 Power Supplies, Avionic, Aerospace  
 Power Supplies, Military

Robert M. Adler, Consulting Engineer  
 POWER CONVERSION DESIGNS  
 P.O. Box 668  
 Medford, NJ 08055-0668  
 Tel: 609-654-5835  
 Email: rmadlerpcd@ieee.org

**Power Conversion, Power Supplies, Power Systems**

Over 25 years, exclusively in the field of Electronic Power Conversion (power supply). Design and problem remediation. Circuit and magnetic design; layout and agency qualification assistance; reliability and impartial design review; equipment design, component, and production troubleshooting; design group formation and leadership; vendor and customer liaison; documentation and technical writing.



RF Systems  
 Analog Circuit Design  
 Measuring Instruments  
 EMC and Safety Standards  
 Alternative Energy

Jonathan Allen, Ph.D.  
 3 Creek Rim Drive  
 Titusville, NJ 08560  
 Tel: 609-737-8896  
 email: jonathan.a@ieee.org

Applied physicist and research engineer. Excellent hands-on skills in research, product development, and prototyping. Expert in RF generators and systems, analog electronics, transducers, and standards certification. Takes pride in finding straightforward, inexpensive solutions to technical problems. Writes and communicates well.

Professional Profile: [www.ece.vill.edu/conet/resumes/allenj.html](http://www.ece.vill.edu/conet/resumes/allenj.html)



Radio Communication Systems  
 Telephone Switching Systems  
 Mobile/Wireless System Analysis  
 Electric and Electronic Wiring  
 Audio and Video Recording  
 Surveillance Systems  
 Electrical Machinery  
 Vehicle Electronics

Roger L. Boyell, Forensic Analyst  
 416 Parry Drive  
 Moorestown NJ 08057-2877  
 Tel: 856-234-5800 Fax: 856-234-9539  
 email: boyell@ieee.org

**Serving the legal forum with consulting and testimony**

I provide consulting in electronics to the legal profession, resolving technical issues facing lawyers, judges, and juries. I have advanced degrees, 30 years industrial experience, and a record of giving expert testimony that can be understood.

Professional Profile: [www.boyell.com](http://www.boyell.com)



Analog Design  
 Digital and FPGA Design  
 Embedded Processors  
 EEG and Biomedical Instrumentation  
 MRI Compatible Instrumentation  
 High-Speed Data Collection  
 SBIR Grant Applications

James. S. Bryan  
 309 N. Fairfield Rd.  
 Devon, PA 19333  
 Tel: 610-220-3611 Tel: 610-989-9377  
 email: j.bryan@ieee.org

**Analog and Digital System Design**

An engineering professional with both management and hands-on experience in many areas of real-time data collection and control, with a strong background in signal analysis and biomedical instrumentation. Experience has included the role of principal investigator in three phase II SBIR grants with the National Institutes of Health.

Professional Profile: [jsbryan@alum.mit.edu](mailto:jsbryan@alum.mit.edu)

◆  
Strategic Planning and Business  
Development  
Program/Project Management  
Process Improvement  
Earned Value Management Process  
Product Design and Development  
Integration and Test

Richard Burk  
Vista Tech Technologies  
48 Church Hill Rd  
Bolton Landing, NY 12814  
Tel: 518-644-3308 Cell: 610-909-7689  
email: roburk@cs.com

### **Program Management from Inception through Customer Support**

Broad experience in Program Management and Business Development for DoD, NATO and the Telecommunications industry, with proven track record in providing leadership and strategic direction in developing and supporting marketing and product development activities. Structured approach insures success through the use of standard PM tools, Earned Value Management Process and Lifecycle management. PMI Certified.

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◆  
Software/Firmware Development  
Object Oriented Analysis/Design  
Real Time Embedded Systems  
Multitasking RTOS, Windows  
C + + ,C, STL, Assembly  
UML, Design Patterns  
Telecom, SS7, Fibre Channel

Ann Campbell  
Campbell Consulting Group, Inc.  
73 Akron Avenue  
Westmont, NJ 08108  
Tel: 856-869-0564  
email: ann@campbellconsulting.us

### **Software Architecture, Design, Implementation, Embedded Systems**

Software Architect/Engineer with extensive experience designing and implementing real-time, multitasking embedded systems and multi-user applications. Designs with a system level perspective, implements with meticulous attention to detail. Particularly skilled in analysis, deductive reasoning, and problem solving. Successfully brings reliable, maintainable, extensible products to market.

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◆  
Digital Hardware Design  
FPGA/ASIC  
VHDL/Verilog  
System Architecture  
Simulation/Verification  
Logic Synthesis, Floorplanning, Place &  
Route  
Telecommunications and Optical Networks  
Project Management

John D. Cappello  
Optimal Design, Inc.  
2 Garton Court  
Sewell, NJ 08080  
Tel: 856-582-4838 Fax: 856-582-4885  
email: jcappello@optimal-design.com

### **Turnkey High-Speed FPGA Design Solutions: From Concept to Bit Files**

Expert in 1M+ gate FPGA design for any application. All projects characterized by computer architecture optimization, reliable functional/timing verification, efficient project management, and professional documentation. Target applications have included Optical Networks, Telecommunications, Image Processing, Multimedia, and Data Acquisition. Leonardo Spectrum, Modelsim, Synopsys Design Compiler, TimingDesigner, and Xilinx/Altera CAE tools. Special standards experience in PCI, SONET, OTN, IP, ATM, POS, 10GbE, SPI4, LVDS, DDR SRAM, and MPEG.

Professional Profile: [www.optimal-design.com](http://www.optimal-design.com)

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Instrumentation  
Analog/Digital Design  
EPLDs/FPGAs  
Embedded Systems  
Automation  
Consumer Electronics  
Motion Control

John Esposito  
JE Design  
41 Falmouth Rd.  
Yardville, NJ 08620  
Tel: 609-581-0285  
email: [j.esposito@ieee.org](mailto:j.esposito@ieee.org)

### **Engineering from Concept to Manufacturing**

Electrical/Electronic Engineer with hands-on skills and over 20 years of experience. System and circuit design for laboratory and industrial instrumentation, imaging systems, high-speed automation and consumer products. Experience with low level analog and high speed digital design, microprocessors, embedded systems, EPLD/FPGAs, video, CCD and CMOS imagers and stepper/servo motion control. Experienced in C, Assembly, Visual Basic and programming PLCs  
Professional Profile: [www.ece.jedesign.biz](http://www.ece.jedesign.biz)

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Micro-P Hardware & Software  
8051 Expert  
Digital & Analog Design  
Video Telephony  
Motion Control  
Communications

Joseph Gangi  
Gangi Engineering  
1998 Yarnall Road  
Pottstown, PA 19464  
Tel: 610-327-2727 Fax: 610-327-9261  
email: [joegangi@voicenet.com](mailto:joegangi@voicenet.com)

29 years of experience in the design of electronic products and subsystems in diverse industry sectors: consumer products, computer interfaces, instrumentation, ISA-bus cards, digital video, LCD interface, low-noise PC layout, software critiques & evaluations, etc. Hardware & software design with 8051, 68K, 6833x, 68HC11, PIC, Z80-family, 80x86 & others.  
Professional Profile: [www.ece.vill.edu/conet/resumes/gangi](http://www.ece.vill.edu/conet/resumes/gangi)

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System Analysis  
Industrial/Power Plant Power Distribution  
Residential and Industrial Electrical Systems  
Forensic Analysis  
Registered Professional Engineer: PA, DE, NJ  
Training (engineering/public presentation)  
Testing

Joseph A. Greco, P.E.  
123 Hurffville Road  
Turnersville, NJ 08012  
Tel: 856-228-0343  
email: [jgreco23@comcast.net](mailto:jgreco23@comcast.net)

Electrical/I&C Engineer with over 34 years experience in analysis, design, testing and training associated with electric power transmission and distribution systems. Consultant in residential and commercial power distribution to the legal profession. Experienced in development and presentation of engineering and non-technical topics.

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Memories  
 ULSI Layout and Design  
 SPICE/Computer Simulation  
 FPGA Conversions  
 RAD-HARD Design  
 Expert Witness

Richard M. Greene  
 AEROSPACE DESIGN CONCEPTS  
 343 Dungannon Drive  
 Abbeville SC. 29620  
 Tel: 864-953-9898 Fax: 864-229-6643  
 email: r.greene@ieee.org

**Innovative ULSI Designs Backed By 36 Years Of IC Experience**

- ULSI DESIGN AND EVALUATION: DRAMS/SRAMS, ROMS, Analog, Digital, Test Chips, FPGA Conversions
- ELECTRICAL PROCESS MODELING: CMOS, Unipolar MOSFET, SOS/SOI
- COMPUTER SIMULATION (INHOUSE): SPICE, L-EDIT, DRC, LVS, SCHEMATIC CAPTURE
- RAD-HARD DESIGNS(Secret Clearance): SEU, Transient, Total Dose
- MULTI-CHIP INTERFACING
- CONSULTING ENGINEER TO LEGAL PROFESSION: Expert Witness In 36 Patent Litigations



Business Technology Liaison  
 Information Technology Application  
 Business Process Engineering  
 System Diagnostic Analysis  
 Technical Support Process  
 Internet Technology Application  
 Technical Training Design

Tim Harig  
 2908 Joyce Road  
 Roslyn, PA 19001  
 Tel or Fax: 866-376-6288 (toll-free)  
 email: Tim.Harig@Innovey.com

**IT Innovation for the Competitive Edge**

**Consulting Services**

IT and System Design for small and medium enterprises  
 Business Process Analysis  
 Complex System Diagnostic Analysis  
 Technical and Field Support Process Design  
 Technical Training Program Development  
 Knowledge-sharing Group Mentoring  
 Cross-functional Team Facilitation  
 Web Site and User Interface Design  
Professional Profile: [www.Innovey.com/WhosWho](http://www.Innovey.com/WhosWho)



Technical Writing  
 Technical Illustration  
 Single-Sourcing  
 On-line Documentation  
 Dynamic Web Design  
 Technical Animation  
 Knowledge Management  
 Usability

Michael Hendry  
 2313 Sansom Street  
 Philadelphia, PA 19103  
 Tel: 215-557-8607  
 email: michael.hendry@verizon.net

**Complete Technical Documentation Solutions**

Experienced technical communicator with strong engineering background. Your one-stop shop for all documentation needs. Providing innovative, customer-centered solutions for hardware/software manuals, on-line help, web site design, SOPs, white papers. Expertise in many publishing and web design tools. Proficient with XML, Active Server Pages, JavaScript; Windows, Mac, and Unix operating systems.  
Professional Profile: [www.txrservices.com/pubs/pubs.html](http://www.txrservices.com/pubs/pubs.html)



Television Equipment  
 Television Systems  
 System Concept Design  
 Project Planning  
 Project Management  
 Staffwork  
 Expert Witness

David Horowitz  
 Horowitz Television Technology  
 367 Ramsey Road  
 Yardley, PA 19067  
 Tel: 215-493-9263 Fax: 215-493-9269  
 email: d.horowitz@ieee.org

**Television Equipment and Systems Consulting**

CLIENTS: Broadcast and other end users of TV equipment • Equipment Manufacturers • Attorneys  
 TECHNICAL SERVICES: Concept and System Design • Product Definition • Specification and RFP Preparation with Bid Analysis/Comparison.  
 BUSINESS SERVICES: Competitive Product Comparison • Planning, Estimates, Budgets  
 • Asset Evaluation • Contract Review/Negotiation • Customer/Manufacturer Relations • Intellectual Property Expert Witness  
 CREDENTIALS: BS and MS in EE • Over 25 years experience

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Specialized Computer Programs  
 Correlating Data Systems  
 Cleaning Up Logic

Peter Zilahy Ingerman, PhD, FBCS, CEng(UK)  
 40 Needlepoint Lane  
 Willingboro NJ 08046-1997  
 Tel: 609-871-7474 Fax: 609-871-1726  
 email: pzi@ingerman.org

**Addressing Use of Computers/Relationships to Humans and Systems**

Nearly half a century of experience in solving unique problems by thinking outside the rectangular parallelepiped. Specializing in niche computer programs. Visual Basic; data analysis, organization, and summarization; FOCUS; statistics; documentation; expert witness; insurance investigations; forensic analysis.  
Professional Profile: [www.ingerman.org/syscon.htm](http://www.ingerman.org/syscon.htm)

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Digital Design  
 Embedded Microcontrollers  
 Software – C, C++ , Assembly, Fortren  
 FPGA, ASIC, UHDL

Robert L. Johnston  
 Anthem Technical Services  
 1620 Yeager Road  
 Royersford, PA 19468  
 Tel: 610-948-5957  
 email: R. Johnston@ieee.org

**Extensive Experience in Digital Hardware and Control Software Design**

Over 30 years experience in hardware and software design and development of digital embedded control systems. Experienced in designing applications for Space, Military, Industrial and Commercial environments. Hardware design experience with a variety of Microprocessors, embedded RISC Micro-controllers, FPGAs and ASICs. Software design experience with C, C++, Fortran and assembly languages. Specialized design languages include VHDL for Hardware design and LabView / LabWindows for control and hardware testing applications.



Analog / Digital Communications  
 Analog / Digital Signal Processing  
 DSP in FPGA Implementation  
 RF  
 High Speed Analog / Digital Design  
 Mixed Signal Circuits  
 Design for Low Noise  
 MATLAB / SIMULINK / SPICE

Bill Jupin, President  
 BILECTRON Inc.  
 2054 Yorktown S  
 Norristown PA 19403  
 Tel: 610-631-1018  
 email: billjupin@bilectron.com

**Bridging the Gap between Systems Analysis and Hardware Design**

We are dedicated to providing competent, cost effective design, development and analysis of electronic components, subsystems or special test equipment for commercial, industrial and aerospace applications. Over 25 years of experience in taking ideas to concepts, design, manufacture, and test. Experience with DOD and NASA programs.

Professional Profile: [www.bilectron.com](http://www.bilectron.com)

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Licensed/Unlicensed Wireless  
 Cellular Backhaul, PTP, PTMP  
 Wireless LAN & WAN  
 Wi-Fi Hotspot Design  
 Data Network Design  
 Project Management  
 Data Security Audit/Design

Nitin J. Khanna, BSCE, MCSE, CCNP, CWNA, CNE  
 Webergize Wireless, LLC  
 3225 Arch Street  
 Philadelphia, PA 19104  
 Tel: 267-679-3101  
 email: nkhanha@webergize.net

**Wireless LAN/WAN Design/Implementation in Licensed/Unlicensed Band**

LAN: Conduct site surveys, Design in-building wireless/wired LAN and WI-FI Hotspots.

WAN: Design Point-to-Point/ Point-to-Multipoint wireless connections

Applications: Toll bypass, Voice/Video, Cellular backhaul, Public Internet access

Technology: FCC Part 15, 2.4Ghz/5.8Ghz/23Ghz, 802.11a/b/g, bluetooth, encryption technologies to secure wireless connections.

Professional Profile: [www.webergize.net](http://www.webergize.net)

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Embedded Systems Development  
 Motion Control Systems  
 Control Systems  
 Digital Hardware Design  
 Firmware Development  
 PCB Layout/Design  
 Electronic Engineering  
 Assembly, C, Visual Basic

Nick Kowalski  
 Haycock Electronics  
 487 Mt. Airy Dr.  
 Quakertown, PA 18951  
 Tel: 215.529.4471  
 email: nick@haycockelectronics.com

**Complete Embedded Systems Design And Development Services**

Over 16 years experience in embedded systems design utilizing microcontrollers from Microchip, Intel, Motorola and others. Digital and analog circuit design. Controls, servos, and instrumentation. From initial consultation to production.

PC-based systems integration for instrumentation, controls and production test.

Professional Profile: [www.haycockelectronics.com](http://www.haycockelectronics.com)

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Real Time Systems  
 Embedded Systems  
 Assembly, C, C++ +  
 Communications  
 Rational Rose  
 Project Management

Irene G. Kravets  
 PIK Technical Services, Inc.  
 7 Candace Court  
 Richboro, PA 18954  
 Tel/Fax: 215-396-1794  
 email: kravets@ieee.org

**Consulting Engineer**

Specializing in software and firmware design and development. Expertise includes embedded, real time systems, high reliability systems, communications software and project management. Extensive experience in the process control, communication and cable television industries. Experienced with various microprocessors, microcontrollers, operating systems, programming languages and development tools.



Digital Signal Processing  
 FPGA/CPLD  
 VHDL  
 Design Renovation  
 New Product Development  
 Analog/Digital Design  
 Embedded Microcontrollers

Stew Leister  
 300 Forrest Road  
 Sellersville, PA 18960  
 Tel: 215-257-1021 Fax: 215-257-3973  
 Email: s.j.leister@ieee.org

**Product Specifications, New Product Design, and Design Renovation**

30 years experience in digital control system design and development in computer, telecommunications, process control and defense applications. Mixed signal, analog and digital designs, TI and Agere DSPs, PLDs, 68000 series microprocessors, VME bus and AT/PC104 bus. In-house capabilities for developing VHDL code and simulations for Altera and Xilinx FPGAs and CPLDs.

Professional Profile: [www.maconsultants.com/leister.htm](http://www.maconsultants.com/leister.htm)



New Business Development  
 Product Development  
 Design Process Improvement  
 Project/Proposal Management  
 Total Quality Management  
 Development Risk Reduction  
 Technology Transfers  
 Partnerships and Licenses

Tom LoCasale, MSEE  
 Vision 2 Profit Focused Consulting  
 29 Stringer Drive  
 Doylestown, PA 18901  
 Tel: 215-345-6424 Fax: 215-230-3964  
 email: teamwork@vision2.biz

**Profit Focused Consulting for Products and Systems**

Thirty years of technical and business experience, as General Manager, Chief Engineer, Project/Proposal Manager, Hardware and Software Designer, increases performance, lowers costs and reduces schedules of projects and proposals for military and commercial Data Acquisition, Control and Communications Networks using wireless, copper, coax and fiber.

Professional Profile: [www.vision2.biz](http://www.vision2.biz)





◆  
Proposal/Project Management  
Project Design/Development  
Design Schedule Management  
Embedded Microcontroller Programming  
Analog/Digital/MixedSignal  
Wireless Portable Communications  
Electromagnetic Compatibility &  
Interference  
Consulting Engineering Services

◆  
Engineering Sciences Applied  
Mathcad Simulation Modeling  
Heat Mass Transfer  
Control Systems Engineering  
Plant Process Dynamics  
Electronics Telecommunications Circuits  
Superior Analytic Skills  
Wide Industrial Experience

◆  
Telecom System Engineering  
Network Planning & Architecture  
Network Performance Analysis  
Wireless Communications  
System Design, Simulation, Testing  
Project Management

Howard Macphee  
429 Vine Street  
Philadelphia, PA. 19106-1146  
Tel: 215-925-9225 eFax: 425-952-7531  
email: h.macphee@ieee.org

### **Product/System Design and Development**

Electrical/Electronic Engineer with a hands-on ability combining both technical and business experience. From design engineering to project management employing a broad knowledge in hardware expertise and software programming for the consumer, industrial, and the military sector. Project schedules reflecting design, development, environmental & operational testing, quality & reliability, pre-production and production costing.

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Dr. Michael J. McCann, BSc(Eng), DIC, Ph.D, CEng, FIEE  
McCann Science  
POB 902  
Chadds Ford, PA 19317  
Tel: 302-654-2953 Fax: 302-429-9458 cell: 07876 184538 (UK)  
email: mjmccann@ieee.org

### **Solving Business, Engineering & Science Problems through Quantified Analysis.**

If you don't understand something, it's out of control. If you can't quantify the underlying causal relationships that define its behaviour, you don't understand it. McCann provides the skills to develop that understanding with you. McCann brings wide industrial experience, knowledge in the physical sciences and skills in mathematical modelling and simulation to solve problems in EE, ChE, ME. Call for a chat anytime.  
Professional Profile: [www.mccannscience.com](http://www.mccannscience.com)

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Paul Ngai, P.E.  
800 Kimberton Road, #N-14  
Phoenixville, PA 19460  
Tel: 610-933-3595  
email: p.ngai@ieee.org

### **Communication Systems & Networks from Concept to Design**

Requirements analysis, telecom transmission/switching systems, voice/data network protocol, QoS & traffic management, network synchronization, SS7, SONET, ATM, TCP/IP, ISDN, Frame Relay. Digital Modulation, TDMA, CDMA, DAMA, IEEE802.11A/B/G, Bluetooth, Digital LOS Microwave, Cellular (3G, GSM, PCS) and Satellite System, Link Budget Analysis, Error Control Codes, RF Coverage Analysis, Digital Signal Processing.  
Professional Profile: [www.maconsultants.com/ngai.htm](http://www.maconsultants.com/ngai.htm)

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Embedded Real-Time Systems  
 Software Engineering  
 Low Power Devices  
 Biomedical Electronic  
 Communication Protocols  
 Complete Product Development

Mark C. OToole  
 MCO Design and Consulting  
 5111 South Mountain Road  
 Emmaus, PA 18049  
 Tel: 610-966-5888 Fax: 419-831-1159  
 email: mco@computer.org

**Embedded Solutions**

Over 21 years of experience in embedded systems design. Expert in User Interface design, communications protocols and motion control. Software code reviews. Legacy system enhancements. Multi-platform desktop software. Motorola, Atmel, Hitachi and others.  
Professional Profile: [www.mco-design.com](http://www.mco-design.com)

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Radio Over Fiber  
 Millimeter Wave Systems  
 Microwave Systems  
 Design, Simulation, Prototyping  
 Proposal Writing Assistance  
 Mock Proposal Reviews  
 Technology Development Planning  
 Project Management

Dr. Arthur Paoella  
 Artisan Laboratories Corporation  
 P.O. Box 158  
 Jamison PA, 18929-0158  
 Tel: 267-228-3888  
 email: apaoella1@comcast.net

**We are Technology's Craftsmen**

We have over 20 years experience in research, development and design of microwave, millimeter wave and fiber optic circuits and systems for Defense, Aerospace, Medical and Communication Industries. We offer design and prototyping services; technology roadmap development; White Paper and proposal writing assistance and mock reviews and Project Management.

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Management Consulting  
 Telecommunications  
 Computer networks  
 Internet  
 Design Review  
 Expert Witness  
 Market Research  
 Technology Transfer

Roy F. Privett, Professional Engineer  
 Hitech Associates  
 20 Fox Hollow Road  
 Voorhees, NJ 08043-2942  
 Tel/Fax: 856 768 5216  
 email: r.privett@ieee.org

**Management Consulting In Telecommunications Technology**

Evaluation of communications company technical capabilities including patents, standards compliance, engineering skills and product position in manufacturing or service markets. Assistance to legal and investment professions. Planning of data, voice and video networks using private facilities and public services such as cellular radio, Internet, ISDN, Frame Relay, and ATM.

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Switch-Mode Power Supplies  
 AC/DC Converters  
 DC/DC Converters  
 Magnetics Design  
 Control Loop Stability  
 High/Low Voltage  
 Analog Design  
 Motion, Process Control

Robert L Rauck  
 Creative Power Resources, Inc.  
 667 Sourwood Drive  
 Hatfield, PA 19440  
 Tel: 215-362-0258 Fax: 215-362-3458  
 email: ee@consult-cpr.com

**Analog, Power Electronics and Motion/Process Control Design Consulting**

CPR, Inc. has two principals, Robert Rauck and Robert Burnet, who each have more than 30 years experience. We specialize in Analog, Linear & Switch Mode Power Electronics (high voltage and low voltage) and Motion/Process Control (including motors) electrical design and packaging and associated controllers and software.

Professional Profile: [www.consult-cpr.com](http://www.consult-cpr.com)

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Logic  
 Firmware  
 Circuits  
 Test

R. S. ("Dick") Roberts, Jr.  
 213 Great Road  
 Maple Shade, New Jersey 08052-3044  
 Tel: 856-234-0616  
 email: rsrjr@pobox.com

**Consulting Engineer, Digital Electronics**

Digital hardware logic design. Firmware development of 8-bit microcontroller systems. Electronic circuit design using most active and passive devices. Test engineering & design of special test equipment. BSEE, MSEE, and P.E. , with several seminars and post-graduate courses, including C++ & visual basic programming, PLC, and computer graphics.

Professional Profile: [www.MAConsultants.com/roberts.htm](http://www.MAConsultants.com/roberts.htm)

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Solar Energy Design  
 Solar Energy Installation  
 Database Development  
 Computer Simulation  
 Semiconductor Device Physics  
 Computerized Measurement Systems  
 Patent Research  
 Proposal Writing

Finley R. Shapiro, P.E.  
 2021 Rodman St.  
 Philadelphia, PA 19146  
 Tel: 215-545-4364 FAX: 215-545-4364  
 email: Consultant@FinleyShapiro.com

**Electronics and Computer Consultant, Solar Energy System Designer/Installer**

I am an experienced electrical engineering and computer consultant, and also a certified solar energy system designer and installer. I am glad to work with you on electronics, instrumentation, software, and database projects, including circuit development, programming, simulation, patent and prior-art research, and proposal and technical writing.

---



Project Management  
Digital & Analog Design  
C, C + + , Assembly, Visual Basic  
UNIX, DOS & Windows Platforms  
Servos and Steppers  
PLCs & Embedded Microcontrollers

Stephen A. Sokalski  
Clever Creations  
363 Deer Drive  
Langhorne, PA. 19047  
Tel: 215-702-9791 Fax: 215-702-9792  
email: s.sokalski@ieee.org

### **Systems Engineering & Integration: Software and Hardware Design**

Over 22 years of hardware and software design, specializing in innovative system approaches and software algorithms. Military, bio-medical and high-volume/high-reliability commercial product experience. Digital design to 200 MHz (ECL). Software: "C", Basic, Fortran, Assembler. Analog design: 0.1 uV signals to 12 KW. RF design to 12 GHz. Most recent embedded processor designs: 68HC11, 68HC711D3, 68HC331, PSOC, DSP. Other: TCP/IP Sockets, MPEG2, ATM, OC3, Digital Video, Sensors, HTML, CGI scripts. All tools, complete lab for design, prototyping, and testing.

Professional Profile: [www.ece.vill.edu/conet/resumes/sokalski.html](http://www.ece.vill.edu/conet/resumes/sokalski.html)

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Intellectual Property Law

William J. Stoffel Esq.  
Stoffel and Associates  
1735 Market Street, Suite A, PMB 455  
Philadelphia, PA 19103  
Tel: 215-670-2455 Fax: 267-200-0730  
email: bill\_stoffel@yahoo.com

Stoffel and Associates is an intellectual property law firm. We specialize in semiconductor, computer, electronics, software, business method, and mechanical patent prosecution. Our practice encompasses all legal services related to patent prosecution, opinions, trademark, and copyright. We provide legal expertise in many areas of technology and business including developing patent portfolios, analyzing the relative strengths of patent positions, and advising clients on using IP as a business asset.

Professional Profile: [www.patent-iplaw.com](http://www.patent-iplaw.com)

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Lightning Protection  
Surge Arrestors  
Earth Grounding Systems  
Electromagnetic Pulse Vulnerability  
Electrical Safety  
Training  
Expert Witness

John M. Tobias, PhD, PE  
Principal Consulting Engineer  
ElectroQuest, LLC  
856 Ocean View Drive  
Toms River, NJ 08753-4468  
Tel: 732-270-2775 eFax: 603-688-6440  
email: jmt@ElectroQuest-LLC.com

Consulting engineering specializing in grounding systems, lightning protection, electrical safety and electromagnetics safety (low frequency, radio frequency and microwave). Services include risk assessment, site surveys, testing, compliance assessment, failure/forensic analysis, expert witness, and design assistance. Training in electrical safety, grounding and lightning protection is also available.  
Professional Profile: [www.ElectroQuest-LLC.com](http://www.ElectroQuest-LLC.com)

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◆  
RF/Microwave/Analog  
Transmitters & Receivers  
Antenna Design & Development  
Part 15 Devices  
GPS  
M&A Related Technical Consulting  
Circuit & System Simulation  
PCB Design (P-CAD & Accel)

Edward S. Troy  
Aerospace Consulting  
P.O. Box 536  
Buckingham, Pa. 18912  
Tel: 215-345-7184 Fax: 215-345-1309  
email: etroy@aeroconsult.com

### **RF/Microwave/Analog Design, Development, and Consulting**

28+ years of experience in RF, microwave, and analog circuit and system design and development. Services range from design, development, and simulation to technical consulting related to mergers and acquisitions, as well as proposal assistance, circuit board layout, and troubleshooting. Facilities include a full suite of design and simulation software packages, as well as a laboratory covering DC to 18 GHz. BSEE '75, MSEE '97, Lehigh.

Professional Profile: [www.aeroconsult.com/cresume.pdf](http://www.aeroconsult.com/cresume.pdf)

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◆  
M.S. Electrical Engineering  
ICCP Certified CDP  
Analysis, Design, Programming  
FORTRAN, C, Pascal  
DOD Top-Secret (inactive)  
VMS VAX/Alpha, PDP-11  
Software Applications, Systems  
20 years experience

Robert E. Underwood, President  
Computer Business Systems, Inc.  
3513 Concord Road  
Doylestown, PA 18901  
Tel: 215-345-9575 Fax: 215-345-5139  
email: Bob.Underwood@ieee.org

### **Software Analysis, Design, Programming and Support**

Software development: Project planning, analysis, design, programming, documentation, user training, maintenance, and support; FORTRAN, C, BASIC, Pascal, DIBOL, COBOL, Assembly. Scientific, engineering, manufacturing, business applications: R&D, real-time process control, data acquisition, conversions/migrations, legacy software support. VMS system administration, performance tuning, VAX-to-Alpha conversions. Troubleshoot/diagnose system and application problems. Windows-XP, MS-Office.

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◆  
Biomedical Applications  
Software Development  
Visual FoxPro Database

James P. Walsh, Ph. D.  
Associates for Scientific Computing  
1650 Upper Ridge Road  
Pennsburg, PA 18073  
Tel: 215-679-3404  
email: DrJimWalsh@ieee.org

### **Biomedical, Scientific, and Engineering Software Applications**

Specializing in biomedical, scientific, and engineering applications  
Real-time interfacing, data acquisition, data analysis, and databasing  
Biomechanics. 3D Motion Analysis. Physiological measurements  
PC based/ Windows systems  
USB interfacing  
C, C++ software development  
Visual FoxPro database systems.  
Education: Ph. D., Physiology & Biophysics; M.S., Physics

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Software Engineering  
3GPP Wireless Protocol  
Internet TCP/IP Protocol  
Database Application  
XML Application  
Embedded System  
Turnkey System

Shiehlie (Tom) Wang  
3 Tech Partner, Inc.  
2910 Arch Road  
Plymouth Meeting, PA 19462  
Tel/Fax: 610-279-5678  
email: s.wang@ieee.org

WCDMA, Broadband and Internet protocol; Database, data-mining and XML application development experience; Project management with multiple engineering knowledge. MSME, MSEE.

- 3GPP/WCDMA and GPRS protocol application.
- Broadband Communication: SNMP and network management application.
- Real-time embedded system: Internet protocol and TCP/IP application.
- Database, data-mining and XML application.
- Skills: C++/C, SDL, SQL, XML, Java; Window NT, UNIX and VxWorks.

Professional Profile: [www.3techpartner.com](http://www.3techpartner.com)

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Interactive 3D Graphics  
Visual Simulation  
Distributed Systems  
Graphical User Interfaces  
Scientific Visualization  
Virtual Reality

Daniel Williams  
Systems & Scientific Software  
263 Forrest Avenue  
Elkins Park, PA 19027  
Tel: 215-885-1573  
email: sass@acm.org

### **Specializing in Computer Graphics Software Development**

In business since 1986 to provide expert software design and development services, I can furnish expertise that complements your existing technical staff or assume project responsibility. Experienced with workstations and PCs, Unix, Linux and Windows and a variety of toolkits and APIs.

Professional Profile: [www.danielwilliams.org](http://www.danielwilliams.org)

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## Notes

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# Philadelphia IEEE Consultants' Network

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## Directory of Consultants

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Email: [conet.phila@ieee.org](mailto:conet.phila@ieee.org)

Website: [www.phila-ieee-consultants.org](http://www.phila-ieee-consultants.org)

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