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# Directory of Consultants and Consulting Services 2007

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**Philadelphia IEEE  
Consultants Network**

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

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**Dr. Richard A. Albright, Associate Professor, CIS**  
**Goldey-Beacom College & VisionSoft Consulting**  
305 Red Cedar Lane  
Bear, DE 19701  
Tel: 302-838-5793  
Email: [albright@gbc.edu](mailto:albright@gbc.edu)

**VisionSoft Consulting - Specializing in Small Business Solutions**

If you are a small business (or are planning to start a small business) and would like help setting up appropriate computer hardware and software, contact me. If you are looking to guard against minor or major disasters - you need to contact me to get a back-up and recovery system in place. If you need assistance with web page design, or with other software or database design, contact me. VisionSoft Consulting can be your IT department.

Professional Profile: [goldey.gbc.edu/~albright](http://goldey.gbc.edu/~albright)

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

**Jonathan Allen, PhD**  
3 Creek Rim Drive  
Titusville, NJ 08560  
Tel: 609-737-8896  
Email: [jonathan.a@ieee.org](mailto: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 straight-forward, 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)

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**Expert at Dealing with Late Projects**  
**Technology Roadmap Development**  
**Resource Management**  
**Risk Management**  
**Project Management**  
**Process Development and Improvement**

**Mr. Donald A. Borcharding, Product Development Specialist**  
**NexSummit, LLC**  
511 Hamilton Drive  
Hackettstown, NJ 07840  
Tel: 908-684-8914  
Email: [dborcharding@nexsummit.com](mailto:dborcharding@nexsummit.com)

**Optimized Product Development**

Don Borcharding has a BSEE from the University of Missouri, is the founder of NexSummit LLC and has over 25 years experience in new product development. He has helped several companies reduce development cycle time and release products on time. He uses his extensive experience in resource management and risk management to transform an organization's focus to be more Innovative and Strategic to achieve new levels of performance.

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

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



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



**Software/Firmware Development**  
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**UML, Design Patterns**  
**Telecom, SS7, Fibre Channel**  
**Rational and Rhapsody Modeling**

**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)

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**James S. Bryan**

309 N. Fairfield Rd.  
Devon, PA 19333  
Tel: 610-220-3611 Fax: 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)

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**Ann Campbell**

**Campbell Consulting Group, Inc.**

73 Akron Avenue  
Westmont, NJ 08108  
Tel: 856-869-0564  
Email: [ann@campbellconsulting.us](mailto: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. Highly skilled in analysis, deductive reasoning, and problem solving. Uses best practices to successfully bring your reliable, maintainable, extensible product to market.

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**Digital Hardware Design**  
**FPGA/ASIC**  
**VHDL/Verilog**  
**System Architecture**  
**Simulation/Verification**  
**Logic Synthesis, Floorplanning**  
**Xilinx/Altera**  
**Project Management**



**Embedded Microcontroller Systems**  
**New Products & Enhancements**  
**Firmware Development and Maintenance**  
**Data Acquisition**  
**Analog & Digital Design**  
**Controls and Automation**  
**Electro-Optical Systems**  
**RF Links & Remote Control**



**Digital Design**  
**Analog Design**  
**Embedded Systems**  
**EPLDs/FPGAs**  
**Instrumentation**  
**Imaging**  
**Automation**  
**Consumer Electronics**

**John D. Cappello**  
**Optimal Design, Inc.**  
412 Pitman Road  
Sewell, NJ 08080  
Tel: 856-582-4838 Fax: 856-582-4885  
Email: [jcappello@optimal-design.com](mailto:jcappello@optimal-design.com)

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

Expert in Large Scale FPGA design for any application. 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. Synplicity, Precision, Modelsim, Design Compiler, Timing Designer, and Xilinx/Altera place and route. Special standards experience in PCI, SONET, OTN, IP, ATM, POS, 1GbE, 10GbE, SPI4, SFI4, DDR/DDR2, MPEG2, and MPEG4.

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

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### **Roger DePietro, MS, M.Eng.**

241 Willow Street  
Macungie, PA 18062  
Tel: 610-967-5280  
Email: [rjd7865@ieee.org](mailto:rjd7865@ieee.org)

### **Creative Hardware and Firmware Design**

Projects include hardware and software development for consumer and industrial products. New designs and enhancements. Varied applications include industrial automation, speech therapy, medical, telephony, security, motion control, entertainment. Optical systems. Firmware (C and Assembly) and hardware design. Processors include: Microchip PIC, Freescale HCS12, HC(S)08, 68HC11, and 68HC05; 8051 and derivatives, Neuron (for LonWorks), Z80/180 and others. Schematic capture (OrCAD and others). Hardware design, prototyping, troubleshooting, and debugging.

---

### **John Esposito**

**JE Design**  
41 Falmouth Rd.  
Yardville, NJ 08620  
Tel: 609-581-8919 Cell: 609-977-9796  
Email: [j.esposito@ieee.org](mailto:j.esposito@ieee.org)

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

Electrical/Electronic Engineer with hands-on skills and over 25 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, FPGA/EPLD's, video, CCD and CMOS imagers and stepper/servo motion control. Experienced in C, Assembly and programming PLCs.

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



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**FPGA Conversions**  
**RAD-HARD Design**  
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**Microsoft Certified Partner**  
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**Emergency Service**  
**Server Co-Location**  
**Wireless and Wired Networks**  
**T1 and Frame Relay**  
**PC Repair and Servers**  
**Website Design and Hosting**

**Joseph Gangi**

**Gangi Engineering**

1998 Yarnall Road  
Pottstown, PA 19464  
Tel: 610-327-2727 Fax: 610-327-9261  
Email: joengangi@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 and evaluations, etc.. Hardware and software design with 8051, 68K, 6833x, 68HC11, PIC, Z80-family, 80x86 and others.

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

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**Richard M. Greene**

**AEROSPACE DESIGN CONCEPTS**

343 Dungannon Drive  
Abbeville, SC 29620  
Tel: 864-953-9898 Fax: 864-229-6643  
Email: r.greene@ieeee.org

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CONSULTING ENGINEER TO LEGAL PROFESSION: Expert Witness In 36 Patent Litigations

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**Mr. Erik Gudmundson, General Manager**

**Beacon Technologies, Inc.**

112 South Union St  
Kennett Square, PA 19348  
Tel: 610-444-9008  
Email: Erik@BrandywineComputer.net

**Professional Computer Support Since 1996**

My company has been providing on-site computer support and sales to local customers since 1996. We are a Microsoft Certified Partner. I am a Microsoft Certified Systems Engineer and our technical staff is also Microsoft-certified. We are happy to work with you to accomplish a specific project, or act as your on-call support provider for your organization's daily IT needs. We have extensive experience with secure data back-up, firewall-VPN, and more. Our company is also a full-service ISP and web design, hosting company.

Professional Profile: <http://www.BeaconNet.com>

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**Technical Writing**  
**Technical Illustration**  
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**On-line Documentation**  
**Dynamic Web Design**  
**Proposal Writing**  
**Knowledge Management**  
**Training**



**Television Equipment**  
**Television Systems**  
**System Concept Design**  
**Project Planning**  
**Project Management**  
**Staff Work**  
**Expert Witness**  
**Studies and Analyses**



**Specialized Computer Programs**  
**Partial Pattern Matching**  
**Finding Data in Incompatible Systems**  
**Cleaning up Messy Logic**

**Michael V. Hendry, MSEE, MS Technical Communications**

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

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Professional Profile: [www.txrservices.com/pubs/pubs.htm](http://www.txrservices.com/pubs/pubs.htm)

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**David Horowitz, President**

**Horowitz Television Technology**

367 Ramsey Road  
Yardley, PA 19067  
Tel: 215-493-9263      Fax: 215-493-9269      Cell: 267-994-0430  
Email: d.horowitz@ieee.org

**Television Equipment and Systems Consulting**

CLIENTS: Broadcast, cable, post production, and other end users of TV and radio equipment • Equipment Manufacturers • System Integrators • Architects • Intellectual Property Attorneys. TECHNICAL SERVICES: Needs Analysis • Concept and System Design • Product Definition • Specification and RFP Preparation with Bid Analysis/Comparison • Equipment selection. 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 30 years experience.

Professional Profile: [HorowitzTV.com](http://HorowitzTV.com)

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**Peter Z. Ingerman, PhD, FBCS, CEng (UK), CITP**

40 Needlepoint Lane  
Willingboro, NJ 08046-1997  
Tel: 609-871-7474      Fax: 609-871-1726  
Email: pzi@ingerman.org

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. Please look at [www.ingerman.org/syscon.htm](http://www.ingerman.org/syscon.htm) for further details.

Professional Profile: [www.ingerman.org/syscon.htm](http://www.ingerman.org/syscon.htm)

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**Digital Design**  
**Embedded Micro-controllers**  
**C, C++, Fortran, Assembly**  
**FPGA, ASIC, VHDL**

**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, FPGA's and ASIC's. 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      Cell: 484-620-9724  
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)



**Software/Firmware Development**  
**Real Time Systems**  
**Embedded Systems**  
**Assembly, C, C++, C#**  
**Communications**  
**UML**  
**Project Management**

**Irene G. Kravets**  
**PIK Technical Services, Inc.**  
7 Candace Court  
Richboro, PA 18954  
Tel: 215-396-1794      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, communications 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**  
**Project Management**



**Project & Proposal Management**  
**Development Risk Reduction**  
**Design Process Improvement**  
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**Project Management Training**  
**Technology Transfers**  
**Microsoft Project Software Training**  
**Partnerships and Licenses**



**Proposal/Project Management**  
**Project Design/Development**  
**Design Schedule Management**  
**Embedded Microcontroller Programming**  
**Analog/Digital/Mixed Signal**  
**Wireless Portable Communications**  
**Electromagnetic Compatibility**  
**Consulting Engineering Services**

#### **Stew Leister**

300 Forrest Road  
Sellersville, PA 18960  
Tel: 215-257-1021 Fax: 215-257-3973  
Email: [s.j.leister@ieee.org](mailto: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)

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#### **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](mailto:teamwork@vision2.biz)

#### **Profit Focused Consulting for Products and Systems**

Decades of technical and business experience as General Manager, Chief Engineer, Project/Proposal Manager, Hardware and Software Designer. Aligns your cross functional teams with your business strategy. Trains and leads teams to increase performance while reducing cost and schedule of projects/proposals for military and commercial Data Acquisition, Control and Communications products for wireless, wireline, coax, fiber and satellite networks.

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

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#### **Howard MacPhee**

429 Vine Street  
Philadelphia, PA 19106-1146  
Tel: 215-925-9225 Fax: 425-952-7531  
Email: [h.macphee@ieee.org](mailto: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 and operational testing, quality and reliability, pre- and production costing.

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**Engineering Sciences Applied**  
**Mathcad Simulation Modeling**  
**Heat Mass Transfer**  
**Control Systems Engineering**  
**Plant Process Dynamics**  
**Electronics Telecommunications Circuits**  
**Superior Analytic Skills**  
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**WEDnetPA & NJ DOL WDP Training**  
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**Industrial Control Design & Debugging**  
**Analog & Digital Circuit Design**  
**Automation**  
**Instrumentation**  
**Design Analysis & Modifications**  
**PLC Programming**

**Dr. Michael J. McCann, BSc(Eng), DIC, PhD, CEng, FIEE**

**McCann Science**

POB 902

Chadds Ford, PA 19317

Tel: 302-654-2953

Fax: 302-429-9458

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Email: [mjmccann@ieee.org](mailto:mjmccann@ieee.org)

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

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**Gerald F. (Gerry) O'Brien, PE, MEESci, BEE**

1377 Springton Lane

West Chester, PA 19380

Tel: 610-918-9911

Fax: Call first

Cell: 484-433-3784

Email: [gfbrien@ieee.org](mailto:gfbrien@ieee.org)

**Training. Industrial Control Design, Development, Installation, & Debugging**

Thirty five plus years industrial experience designing, developing, installing and debugging analog and digital electronic and electro-mechanical systems, including programming of PLC's. Experience also includes development of electrical and electronic schematics, PCB design, panel layouts, proposal estimates, training and hands on troubleshooting and problem solving of implemented designs and modifications, both in-house and at customer sites. Also, experienced instructor, having taught over 800 hours of Workforce and Economic Development Network of PA (WEDnetPA) and NJ Department of Labor Workforce Development Partnership (NJ DOL WDP) Basic Skills courses as well as being an Adjunct Instructor at a local campus of a national tech school.

Professional Profile: [home.comcast.net/~504gfbrien/index.html](http://home.comcast.net/~504gfbrien/index.html)

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**Mr. Trien (Tim) Pham, Consulting Engineer**

**Pham & Associates**

104 Buckwalter Road

Royersford, PA 19468

Tel: 610-948-4685

Cell: 610-564-0133

Email: [trien19008@yahoo.com](mailto:trien19008@yahoo.com)

**Out-of-the-Box Creative Problem Solver**

10 Years experience in medical device designs and manufacturing. A lifetime of hands-on problem solving and a healthy obsession with efficiency and inexpensive yet clever solutions. I marvel opportunities to creatively solve problems to improve efficiency and worker's ergonomic.

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**Logic  
Firmware  
Circuits  
Test**

**R. S. (Dick) Roberts, Jr.**  
213 Great Road  
Maple Shade, NJ 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, and software testing against pseudo-code. Proficiency in Microsoft Word, Excel, and Access applications. Tutoring in Math & Computer Literacy. \*\*\*\* BSEE, MSEE, and P.E., with several seminars (Mixed-Signal, DSP, Test and Measurement, Microcontrollers) and post-graduate courses (object-oriented programming, Windows 2000, PowerPoint, Programmable Logic Controllers, computer graphics).

Professional Profile: [www.MACConsultants.com/roberts.htm](http://www.MACConsultants.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, PE**

2021 Rodman St.  
Philadelphia, PA 19146  
Tel: 215-545-4364 Fax: 215-545-4364  
Email: [Consultant@FinleyShapiro.com](mailto:Consultant@FinleyShapiro.com)

**Electronics and Computer Consultant, and Solar Energy System Designer and 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.

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**Project Management  
Digital & Analog Design  
Software: 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](mailto: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**  
**Copyrights**  
**Patents**  
**Trademarks**  
**Business law**

**William J. (Bill) Stoffel, Esq.**

**Stoffel Law Office**

1735 Market Street, Suite A455

Philadelphia, PA 19103

Tel: 215-670-2455 Fax: 267-200-0730

Email: [stoffel@Patent-IPLaw.com](mailto:stoffel@Patent-IPLaw.com)

### **Intellectual Property - Patent Law**

Stoffel Law Office 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**  
**Electromagnetic Safety**

**John M. Tobias, PhD, PE**

**Principal Consulting Engineer**

ElectroQuest, LLC

856 Ocean View Drive

Toms River, NJ 08753-4468

Tel: 732 270 2775

Fax: 603 688 6440

Email: [jmt@ElectroQuest-LLC.com](mailto:jmt@ElectroQuest-LLC.com)

### **Electrotechnology Safety Consulting**

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 Design**  
**Transmitter & Receiver & Synthesizer**  
**Antenna Design & Development**  
**Part 15 Devices**  
**GPS and Spread Spectrum**  
**M&A Related Technical Consulting**  
**Circuit & System Design & 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](mailto: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, development, analysis, and simulation software packages, as well as a laboratory covering DC to 18 GHz. BSEE '75, MSEE '97, Lehigh Doctoral Level Research 98-

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**B.S, M.S. Electrical Engineering**  
**ICCP Certified CDP**  
**Analysis, Design, Programming**  
**FORTRAN,C,Pascal, BASIC,DIBOL,COBOL**  
**DOD Top-Secret (inactive)**  
**VMS VAX Alpha, PDP-11, Macro, DCL**  
**Software Applications, Systems**  
**25 Years Experience**



**Biomedical Applications**  
**Software Development**  
**Visual FoxPro Database**  
**C/C++**  
**Physiological Measurements**



**Electric Power Distribution Design**  
**National Electrical Safety Code**  
**Electric Power Facility Inspection**  
**Electric Power Facility Measurement**  
**Testifying as Expert Witness**  
**Instruction in Electric Power Design**  
**Engineering and Construction Standards**  
**Material Failure Analysis**

**Robert E. (Bob) Underwood, Principle Consultant**  
**Computer Business Systems, Inc.**

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Doylestown, PA 18901  
Tel: (215) 345-9575 Fax: (215) 345-5139  
Email: Bob.Underwood@ieee.org

**Software Analysis, Design, Programming, Support-Business/Scientific**

Software development: Project planning, analysis, design, functional specs, 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 and migrations, legacy software support. VAX VMS system administration, performance tuning, VAX-Alpha conversions. Troubleshoot and diagnose system and application problems. VMS VAX Alpha, PDP-11, MS-Windows, MS-Office, PC Hardware.

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**James P. Walsh, PhD**  
**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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**David C. Young, P.E., President**  
**Young Engineering, Inc.**

123 Oldbury Dr.  
Wilmington, DE 19808  
Tel: 302-633-1044 Fax: 302-633-1107  
Email: dave@daveyoungengineering.com

**Serving Law Firms and Electric and Communications Utilities**

I have over 34 years experience designing and inspecting electric power distribution facilities. I am an expert in all aspects of the National Electrical Safety Code. I am also an expert in taking clearance measurements of energized electric power systems. I have testified over forty times in litigation involving electric power distribution facilities. I have over 34 years experience teaching all aspects of electric power from basic electricity to electric power distribution design. I am a licensed professional engineer in twelve states.

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

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# Philadelphia IEEE Consultants Network

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## Directory of Consultants

Founded in 1884, the Institute of Electrical and Electronics Engineers, Inc. (IEEE) is the world's largest professional engineering society, with over 300,000 members. The IEEE Consultants Network consists of IEEE members, in private practice, who offer state-of-the-art consulting services. Some of the areas of expertise represented by our members include electronics, computer software and hardware, digital and analog design, forensics, power systems, new product development, quality systems and technology management.

The Philadelphia Section of IEEE Consultants Network has prepared this directory to assist companies in locating qualified consulting help. The Consultants Network provides its referral services at no cost to either its members or their clients. It should be your first source to contact when a consultant is needed by your business.

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