

BUSINESS PHILOSOPHY, QUALIFICATIONS AND SUMMARY OF SERVICES



Imaging Strategies that Work!



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CORPORATE OVERVIEW

Founded and incorporated in the Commonwealth of Virginia in 1988, Electro-Optical Technologies, Inc. (E-OTEK) is a professional services management firm, focusing on the high-performance computational requirements of electronic imaging and graphics applications.

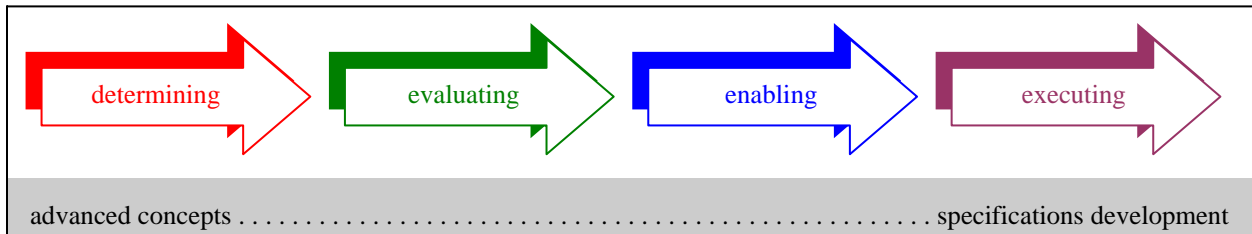
BUSINESS PHILOSOPHY

The size and structure of E-OTEK help us see and respond effectively to interrelationships among clients' varied needs. Our diverse practice areas include systems consulting, decision-critical information analysis, technology insertion and product commercialization. Combined with a thorough grasp of each client's circumstances, our broad range of expertise helps us to create distinctive solutions that are innovative, efficient and flexible. We provide market intelligence, technology assessments and guidance and strategic assistance—whether addressing clients' existing projects or initiating new ventures—by:

- Determining applications and market opportunities;
- Evaluating competitive environments;
- Enabling novel design technologies; and,
- Executing new and effective strategies.

Our expertise spans all compute-intensive digital imaging technologies; building upon this resource with a variety of research, analysis and modeling techniques. The cornerstone of our services relies on:

- Cost-effectiveness;
- Task-specificity;
- Immediacy;
- Quantifiable efforts; and
- Qualifiable performance.



QUALIFICATIONS

A rich repertoire of achievements and aptitudes aids us in outpacing the complexities of the industry. To serve emerging business ventures and large organizations alike, our progressive professional practice offers assistance in daily operations, corporate problem solving and evolution of longer-range strategies.

Principal systems consultant and analyst, Lee J. Nelson, is a well-organized, proactive team player, possessing a wealth of information in image processing and digital image display technologies. His scholarship is complemented with superior business acumen and leadership abilities.

Mr. Nelson's experience in image acquisition, image processing, softcopy display and stand-alone as well as networked applications spans thirty years. He embraces classical need-satisfaction methodologies to tailor solutions for system integrators, OEMs, VARs, VEUs and contractors to federal, state and local government agencies.



SUMMARY OF SERVICES

The Who, What, Where, When, How and Why of High-Performance Imaging

analyzing leading-edge applications

- image compression and communication
- image data reduction and enhancement
- image mensuration and data classification
- imagery RDBMS administration
- pattern recognition
- video and image data acquisition
- video-based AVI and AVL

appraising emergent technologies

- IR&D
- IV&V
- performance evaluation
- special studies, research and analyses
- systems definition and configuration

examining crucial business issues

- collaborations and joint ventures
- component and subsystem outsourcing
- guidance and strategic planning
- ops concept development
- requirements delineation
- technical representation
- technology insertion

probing the ever-changing marketplace

- competitive assessment
- risk minimization
- product information and commercialization
- proposal administration
- strategic positioning
- next generation product features



THE BEST FIT SOLUTION

Every client is unique and exacts customized solutions. At E-OTEK, an unusual degree of formal and informal coordination is the rule, allowing us to maintain close, concentrated oversight of each client's requirements. Our specialized knowledge is rooted in firsthand experience, rounded out by a remarkably current awareness of the state- and direction-of-the-industry. We leverage a heterogeneous network of contacts, creating balanced strategies which are distinguished by innovation, impartiality, cost-effectiveness and flexibility. This loosely structured approach affords the best fit solution; ensuring that all clients are served capably and continuously without any unjustified or unsubstantiated claims of product performance, applied technology or market dynamics.

Consultants are established among ranks of similar service-oriented professionals (accountants, attorneys, financial planners), all of whom provide expertise and objectivity at significant return-on-investment. When appropriately employed and directed, they are effective adjuvants to organizations seeking unbiased knowledge, skills and resources. We take great pride in being both responsive and responsible to our clients and look forward to adding your company to our growing family of satisfied clientele. For a confidential needs assessment, please reach us at:

Post Office Box 3125 • Falls Church, Virginia 22043-0125-25
Telephone: 1-703-893-0744 • Facsimile: 1-443-587-0303
E-Mail: lnelson@rcn.com • URL: <http://www.garlic.com/biz>

Our offices are maintained near the intersection of Gallows Road and George Washington Drive in Tysons Corner. The modern mid-rise building is located in reasonable proximity to the West Falls Church Metro Station and offers ready access to the Capital Beltway, Interstate 66, Route 267 and the Washington-Dulles Airport Access Road.



REFERENCES

E-OTEK's CAGE code is ØNAV6, DUNS number is 60-609-4993, EIN is 54-1484719 and NAICS code is 541512.

SECURITY DATA

Clearances will be passed and visit authorization requests accommodated on a need-to-know basis.



SOME OF OUR CLIENTELE

Advanced Engineering & Research Associates, Inc.
 Advanced Traffic Control, Inc.
 Advanstar Communications
 Alphatech, Inc.
 Appian Technology Inc.
 Appian Technology Plc
 Autometric, Inc.
 AutoVu Technologies Inc.
 BIS Strategic Decisions, Inc.
 BIS Strategic Decisions, Ltd.
 BMW/Kontron Elektronik GmbH
 BRICEpac, Inc.
 Cambridge Neurodynamics, Inc.
 Cambridge Neurodynamics Ltd.
 Century Computing, Inc.
 Cognex Corporation
 Computer Recognition Systems, Inc.
 CoVi Technologies, Inc.
 Cygnus Business Media/PTN Publishing
 Cyclops Technologies, Inc.
 DiCicco, Gulman & Company LLP
 DRS Technical Services, Inc.
 Dwiperkasa Sdn. Bhd.
 Earth Resources Mapping, Inc.
 Ellery and James, Ltd.
 ELR Technologies, Inc.
 Eynet Enforcement Systems, Inc.
 Global Access Corporation
 Grolier, Inc.
 Harris Corporation
 HDS Inc.
 Hutchins, Wheeler & Dittmar, P.C.
 H3B Media Ltd.
 International Imaging Systems, Inc.
 Intertec Publishing Corporation
 Iterated Systems, Inc.
 Jenoptic/SIS GmbH
 Kaufman & Canoles, PC
 Laser-Scan Inc.
 L.E.K. Consulting LLC
 Litton-Itek Optical Systems
 Lockheed-Martin Mission Systems
 Lockheed Missiles & Space Company, Inc.
 Mantinband Goldberg Associates Ltd.
 Mercury Computer Systems, Inc.
 Miller-Freeman, Inc.
 Ominex, Inc.
 Pacific-Sierra Research Corporation
 PCI Inc.
 PCI Remote Sensing Corporation
 Perceptics Corporation
 Pivotal Graphics, Inc.
 Planning Research Corporation
 Power Signal Technologies, Inc.
 Premier Management Services, LC
 Quixote Corporation
 Racal Communications Systems Ltd.
 Racal NCS, Inc.
 Roche Image Analysis Systems, Inc.
 Route One Publishing Ltd.
 Sagem Défense Sécurité SA
 Science Applications International Corporation
 Scranton Gillette Communications, Inc.
 Select Strategy
 SettlementRoom Systems, Inc.
 Spotts Fain PC
 Sprint Multimedia, Inc.
 SunSoft, Inc.
 Tau Corporation
 Terra-Mar Resource Information Services, Inc.
 The Analytical Sciences Corporation
 The Mobility Network Group
 The Wats Room, Inc.
 Transformation Systems, Inc.
 UK IP Media & Events
 University of Kentucky/Transportation Center
 US Government
 VICO Systems
 Video Scope International Ltd.
 Visionary Technology Inc.
 VisionSphere Technologies Inc.
 VistaScape Technology Corporation
 Volpe National Transportation Systems Center
 VSE Corporation
 Westinghouse Electric Corporation
 3M Traffic Control Materials Division



WHY A CONSULTANT?

Consultants are established among the ranks of similar service-oriented professionals (accountants, attorneys, financial planners) all of whom provide expertise and objectivity at significant return-on-investment.

EXPERTISE

Since knowledge forms the core of consultation, it is imperative that practitioners remain abreast of advances within their specialty. Even though a particular task may be novel, consultants can call upon lessons learned from prior assignments; in essence, others already have paid for their on-the-job training.

OBJECTIVITY

Faced with differing agendas and the internal corporate politics that occasionally ensue, consultants frequently strike productive compromises by bringing refreshing perspectives to otherwise overburdened scenarios.

COST-EFFECTIVENESS

Distributing additional workloads among existing staff is an alternative to calling upon a consultant. Although this option initially might appear attractive, a closer look indicates otherwise. Redirection of employees often results in counterproductivity and discouragement. Consultants assure quality efforts that are completed quickly and without the unintended consequences

In this situation, experienced consultants can initiate—if not complete—the extra work while realizing a true savings for the client: overhead and fringe benefits customarily are not extended to them. In event permanent staffing is considered, consultants can help to ascertain whether it is essential, perform in the interim, define the position and qualify applicants.

Further economies can be achieved since consultants' knowledge is not self-limited: a network of their associates can be leveraged to the client's advantage.

FLEXIBILITY

Many consultants are flexible and can offer innovative terms that may be particularly attractive to small businesses. Since they render many functions and services, consultants are able to respond to clients' changing needs.

MOTIVATION

Consultants are highly motivated and enthusiastic problem-solvers with reputations that continually are at stake.

CONTINUITY

The value of employees often is appreciated only after one departs with vital company information. Consultants provide stability, offsetting turnover and attrition. By understanding clients' operations, they can indoctrinate new recruits.

THE NEXT STEP

A professional consulting affiliation typically begins with a confidential needs assessment. To schedule the next step, please contact us:

Post Office Box 3125 • Falls Church, Virginia 22043-0125-25
Telephone: 1-703-893-0744 • Facsimile: 1-443-587-0303
E-Mail: lnelson@rcn.com • URL: <http://www.garlic.com/biz>



SUMMARY

Mr. Nelson is a well-organized proactive team player possessing exceptional knowledge of high-performance electronic imaging and image display technologies, complemented with superior business acumen and leadership capabilities.

Lee J. Nelson



EMPLOYMENT HISTORY

Electro-Optical Technologies, Inc.	Vienna VA
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Principal Systems Consultant, engineering solutions for integrators, OEMs, VARs, VEUs and contractor organizations to federal, state and local governments. Affords impartial competitive assessments, market direction and strategic planning and assistance with emphasis on emerging as well as evolving high-performance electronic imaging technologies for transportation applications.

GeoSpectra Corporation	Ann Arbor MI
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Vice-President. Championed corporate efforts in specialized areas of remote sensing, multispectral image enhancement and analysis, stereo image mensuration and image perspective transformation. Rendered services to the intelligence community, DoD, the military and related agencies plus value-added vendors. Assumed full management responsibilities for the Washington DC operation.

Gould Inc., Imaging & Graphics Division	Fremont CA
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Elevated to **Regional Manager** and directed technical and administrative staff and applications engineers. Recruited and trained personnel. Initially joined the Eastern Regional **Consultative Engineering** team for DeAnza image processing equipment and peripherals. Became well-versed with the military and civilian government agencies as well as the commercial private sector.

Carl Zeiss, Inc.	Thornwood NY
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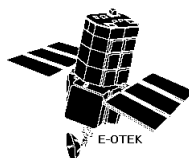
Promoted to **Product Manager** of automated image analysis. Primarily responsible for fully-automated pattern recognition systems, sales and service organizations, targeted advertising campaigns, instrument demonstrations, installations and applications analyses. Collaborated with international counterparts on market trends, strategies and systems' requirements. Formulated design specifications for evolving-technology products. Originally hired as **Product Specialist**, manufacturer's technical liaison for image analysis equipment, quantitative microscopic and photometric systems and compound optical microscopes.

Reinhardt Instruments, Inc.	Woodbury NY
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Technical Analyst for optical, electrical and electronic instrumentation manufactured by Carl Zeiss, Inc. and affiliates.

Memorial Sloan-Kettering Cancer Center	New York NY
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Research Technician in the Department of Immunobiology.



EDUCATIONAL HISTORY

Smithsonian Institution	Washington DC
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Continuing Education seminar for enrichment of technical skills.

Smithsonian Institution	Washington DC
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Continuing Education seminar for enrichment of professional business skills.

American Management Associations	New York NY
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Continuing Education seminar in the Center for Management Development.

Xerox Learning Systems	Greenwich CT
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Continuing Education seminar for enrichment of professional business skills.

University of Connecticut	Storrs CT
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Post-Graduate Study in Pathobiology, Developmental Genetics and Cellular Biology.

Hartwick College	Oneonta NY
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Bachelor of Arts Degree with Distinction.

PROFESSIONAL HONORS AND AWARDS

Madison *Who's Who Among Executives and Professionals*, Nomination, 2008&2009
 Metropolitan *Who's Who Among Executives and Professionals*, Nomination, 2007
 Cambridge *Who's Who*, Nomination, 2006
 National Register's *Who's Who in Executives and Professionals*, Nomination, 2003&2004
 International Executive Guild's *Registry*, Nomination, 2001
 Marquis' *Who's Who in America*, Nomination, 2001
 International *Who's Who of Entrepreneurs*, Nomination, 2000
 International Executive Club's *Online Who's Who Database*, Nomination, 1999
 International Executive Guild's *Who's Who*, Nomination, 1999&2000
 Kensington's *Who's Who Directory*, Nomination, 1999
 Lexington's *Who's Who*, Nomination, 1999&2000
 Nationwide Register's *Who's Who in Executives and Business*, Nomination, 1999&2000
Who's Who in Executives and Professionals, Nomination, 1998&2002
Who's Who in Science and Engineering, Nomination, 1998
 International *Who's Who of Information Technology*, Nomination, 1997
 International *Who's Who of Professionals*, Nomination, 1996, 1998&2002
 Strathmore's *Who's Who*, Nomination, 1996, 1997&2003
 International *Who's Who*, Nomination, 1993
Who's Who Among Rising Young Americans, Nomination, 1991
Who's Who in the Computer Industry, Nomination, 1990
 Gould Gold Club, Charter Membership, 1984
 Gould Inc., Pro Club Membership, 1983-1985&1987



PROFESSIONAL ACTIVITIES

Intota Expert Consultant, 2008&2009
 Online Consultancy Network Membership, 2002-2009
 North American Academy of Arts and Sciences Fellowship, 2002&2003
 FAS Membership, 1999&2000
Two-Day Revenue Control Seminar, Invited Speaker, 1999
 IAVO Membership, 1998-2002
Second Annual ImageTech Leadership Conference, Organizing Committee Membership, 1997
Second Annual ImageTech Leadership Conference, Planning Committee Membership, 1997
 Giga ExpertNet ITKN, Expert Membership, 1996-1999
ImageTech Leadership Conference, Track Chairmanship, 1996
 American Mensa Certified Proctor, 1995-2005
 IEEE Associate Membership, 1995-1996
Second Annual Pan-European Video & Image Compression, Conference Chairmanship, 1995
Electronic Imaging International, Technical Program Committee Chairmanship, 1994
European Image & Video Compression, Conference Chairmanship, 1994
Third Image & Video Compression, Conference Chairmanship, 1994
Electronic Imaging International, Conference Advisory Board Membership, 1993
Image & Video Compression, Conference Chairmanship, 1993
Electronic Imaging International, Advisory Board Membership, 1992
 NCRI Membership, 1992-2009
 SPIE Working Group Membership, 1992-1997
 ADPA Membership, 1991-1996
Electronic Imaging West, Advisory Board Membership, 1991
Electronic Imaging West, Conference Program Manager, 1991
Image Compression, Conference Chairmanship, 1991
 IS&T Membership, 1991
 ASPRS Membership, 1990-1991
Electronic Imaging East, Advisory Board Membership, 1990
 NMIA Membership, 1990-1994
 AFCEA Membership, 1988-1989
 TaMMREG Membership, 1988-1994
 Metropolitan Washington Mensa Membership, 1986-2009
 Electronic Association of California Membership, 1984-2009
 NCGA Membership, 1983-1986
 Virginia Academy of Science Membership, 1979-1981



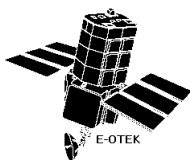
PUBLICATIONS AND PRESENTATIONS

in preparation, *Thinking Highways*, H3B Media Ltd., Wallington, Surrey UK, Fall 2009.
 "To and...flow", *ETC, etc.*, H3B Media Ltd., Wallington, Surrey UK, Spring 2009.
 "Keeping Your Displays Secure", *Advanced Imaging*, Cygnus Business Media, Inc., Melville NY, May 2009.
 "En patellæ, veritas", *Thinking Highways*, Spring 2009.
 "Advances in Endoscopy", *Advanced Imaging*, January 2009.
 "Statutes of Liberty", *Thinking Highways*, Winter 2008.
 "The Inside Image", *Advanced Imaging*, September 2008.
 "No going back...", *Thinking Highways*, Summer 2008.
 "Freeze Frames", *Advanced Imaging*, May 2008.
 "Grateful for the Recognition", *Thinking Highways*, Spring 2008.
 "Plate Tectonics", *Thinking Highways*, Winter 2007.
 "Looking Ahead", *Advanced Imaging*, November 2007.
 "Last Hurdle to Optics on a Chip?", *Advanced Imaging*, September 2007.
 "Catadioptric Lenses...", *Advanced Imaging*, May 2007.
 "Signing on for Hazardous Duty", *Advanced Imaging*, May 2007.
 "The Domino Effect", *Traffic Technology International*, UK IP Media & Events, Dorking, Surrey UK, April/May 2007.
 "Navigating the Maze of Sensors & Cameras for Scientific Applications", *Advanced Imaging*, April 2007.



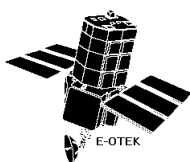
PUBLICATIONS AND PRESENTATIONS (continued)

- “Solving the Problems of Mobile Imaging”, *Advanced Imaging*, April 2007.
- “Liquid Lens”, *Advanced Imaging*, March 2007.
- “Impact Analysis—The Signals for Change”, *Traffic Technology International*, February/March 2007.
- “High Speed Entertainment”, *Advanced Imaging*, February 2007.
- “Stop on red”, *ITS International*, Route One Publishing Ltd., Swanley, Kent UK, January/February 2007.
- “Endoscopes Push Imaging Boundaries”, *Advanced Imaging*, January 2007.
- “SDKs Provide a Wealth of Capabilities”, *Advanced Imaging*, November 2006.
- “The Eyes Have It”, *Traffic Technology International*, October/November 2006.
- “Body of Evidence”, *Traffic Technology International*, June/July 2006.
- “What a Difference Two Decades Make”, *Advanced Imaging*, May 2006.
- “Walk of Life”, *Traffic Technology International*, April/May 2006.
- “Detecting Traffic Incidents”, *Advanced Imaging*, February 2006.
- “Safety: Victory for Vehicle and Vision Vendors”, *Advanced Imaging*, January 2006.
- “License and Registration, Part II”, *Traffic Technology International*, December/January 2006.
- “License and Registration, Part I”, *Traffic Technology International*, October/November 2005.
- “For whom the video tolls”, *Traffic Technology International*, August/September 2005.
- “Is That You? Prove It”, *Advanced Imaging*, March 2005.
- “Cargo Inspection Gets Federal Funding”, *Advanced Imaging*, January 2005.
- “Appetite for detection”, *Traffic Technology International*, December/January 2005.
- “Picture this”, *Traffic Technology International*, October/November 2004.
- “In The Zone—Securely”, *Advanced Imaging*, October 2004.
- “Location, location, location”, *Traffic Technology International*, August/September 2004.
- “Checking Under The Hood”, *Advanced Imaging*, July/August 2004.
- “Digital watch”, *Traffic Technology International*, Annual Review 2004.
- “Biometrics on the Border”, *Advanced Imaging*, June 2004.
- “What lies beneath”, *Traffic Technology International*, April/May 2004.
- “Streaming Video—Wirelessly”, *Advanced Imaging*, March 2004.
- “Capitol idea: Parking and security combined”, *Traffic Technology International*, February/March 2004.
- “The Color of Money: Keeping Currency Current”, *Advanced Imaging*, January 2004.
- “The Search is Over”, *Advanced Imaging*, October 2003.
- “A real sense of purpose”, *Traffic Technology International*, August/September 2003.
- “Chipset and match”, *Traffic Technology International*, August/September 2003.
- “Updates on the State of License Plate Identification/Recognition Systems”, *Parking Network*, We Focus BV, Maastricht Netherlands, August 2003.
- “Automatic Vehicle Identification”, *Advanced Imaging*, July/August 2003.
- “Plight of the navigator...”, *Traffic Technology International*, June/July 2003.
- “An AVID reader”, *Traffic Technology International*, April/May 2003.
- “Fighting Crime in the 21st Century”, *Advanced Imaging*, March 2003.
- “Awaiting the Reformation API Standardization Has Promised”, *Advanced Imaging*, February 2003.
- “Recognizing recognition”, *Traffic Technology International*, December/January 2003.
- “License Plate Recognition...”, *Advanced Imaging*, September 2002.
- “Caught red-handed”, *Traffic Technology International*, August/September 2002.
- “Curtailing Identity Fraud: U.S. Passports Get a Digital Facelift”, *Advanced Imaging*, July 2002.
- “A load on the road”, *Traffic Technology International*, June/July 2002.
- “Under the river”, *Traffic Technology International*, Annual Review 2002.
- “Sensors working overtime”, *Traffic Technology International*, February/March 2002.
- “The Keys to CCTV”, *Advanced Imaging*, Supplement 2002.
- “Recent Advances in License Plate Recognition”, *Advanced Imaging*, January 2002.
- “No news is bad news”, *Traffic Technology International*, October/November 2001.



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- “Digital Elevation Data from Stereo Images”, *Advanced Imaging*, October 2001.
- “Smarter than the average barrier”, *Traffic Technology International*, August/September 2001.
- “Recognition handbook”, *Traffic Technology International*, June/July 2001.
- “Stereoscopic Vision: Get Into the GRUVE”, *Advanced Imaging*, June 2001.
- “Hyperfast Imaging Without Compression: Fact or Fancy?”, *Advanced Imaging*, May 2001.
- “Cross-Platform Compatibility: Cultivating Digital Access to Museum Collections”, *Advanced Imaging*, April 2001.
- “National Institute of Standards [and Technology] Takes Up Digital Cinema Image Handling & Security”, *Advanced Imaging*, February 2001.
- “Turin...and back”, *Traffic Technology International*, October/November 2000.
- “Biometric Imaging for Border Security”, *Advanced Imaging*, October 2000.
- “At Last: Micro Imagers Lead to the Artificial Retina Implant”, *Advanced Imaging*, September 2000.
- “Rapid transition”, *Traffic Technology International*, August/September 2000.
- “Change of Order”, *ITS World*, Scranton Gillette Communications, Inc., Des Plaines IL, July/August 2000.
- “Computer-Aided Illustration Reaches the Desktop”, *Advanced Imaging*, July 2000.
- “New Opportunities for LIDAR in Traffic Speeding Enforcement”, *Advanced Imaging*, May 2000.
- “Remote Control: Outcomes utilizing telemedicine for off-site pre-transplant evaluation and post-transplant long-term care”, *Transplantation*, Lippincott William & Wilkins, Baltimore MD, vol 69:8, April 2000.
- “Multi-Spectral Satellite Imaging Markets: Image Fusion Becomes Passé”, *Advanced Imaging*, April 2000.
- “JPEG-2000: The Image Format Standard in 2000?”, *Advanced Imaging*, April 2000.
- “Volume Visualization Tools: New Capabilities for Video Astronomy”, *Advanced Imaging*, March 2000.
- “Product Update: Storage Solutions for Large Image Files”, *Advanced Imaging*, March 2000.
- “Snap decisions”, *Traffic Technology International*, February/March 2000.
- “Can Compression Save Batteries for Portable Imaging?”, *Advanced Imaging*, February 2000.
- “Is There Really A Vision-Powered Biometric Market...?”, *Advanced Imaging*, January 2000.
- “Business Report: That Displaytech/Hewlett-Packard Relationship”, *Advanced Imaging*, November 1999.
- “What’s Not Invented Here: A Stronger Pull Than Ever”, *Advanced Imaging*, October 1999.
- “Product Update: The Latest Workstations for Imaging”, *Advanced Imaging*, August 1999.
- “Seeing is Believing”, *ITS International*, July/August 1999.
- “Why Did Research Giant Quintiles Transnational Acquire a Visualization & Image Management Firm”, *Advanced Imaging*, July 1999.
- “Updates on the State of the License Plate Identification/Recognition Industry”, *The Intelligent Transport Expert*, The Mobility Network Group, Maastricht Netherlands, July 1999.
- “Image Compression Technology”, *Advanced Imaging*, April 1999.
- “Automatic License Plate Recognition in Proper Technical Perspective”, *Parking Industry Exhibition & Revenue Control Seminar*, International Council of Parking Consultants, Los Angeles CA, March 1999.
- “The Virtual Corporation and New-Generation Telecommuting: Helping the Imaging Work Work”, *Advanced Imaging*, February 1999.
- “Handling High-Performance Web Images for E-Commerce...”, *Advanced Imaging*, January 1999.
- “An Evolving Model for Virtual Imaging Organizations”, *The IAVO On-line Journal*, IAVO Inc., January 1999.
- “The Technical Side of LPI/R”, *Parking Today*, BRICEpac, Inc., January 1999.
- “Cost-Justifying Near Continuous Imaging Software Upgrades”, *Advanced Imaging*, November 1998.
- “Remote Sensing/Satellite Imaging Market Watch: Why, Here Comes Microsoft!”, *Advanced Imaging*, August 1998.
- “NT Workstations for Imaging: New Flavors and Apps Addressed”, *Advanced Imaging*, July 1998.
- “A Vision System That Spots Cracks Along Asphalt Roads—And Repairs Them!”, *Advanced Imaging*, May 1998.
- “Overcoming the Generation by Generation MPEG-2 Degrade Problem”, *Advanced Imaging*, March 1998.
- “EOCAP: High-Res Imaging for Power Industry, Parcel Management—and More”, *Advanced Imaging*, March 1998.
- “Polaroid & Québec Vision Start-Up Commercialize Robust Face Recognition”, *Advanced Imaging*, February 1998.
- “Simple, Low-Noise Multispectral Imaging for Agriculture Vision and Medicine!”, *Advanced Imaging*, November 1997.
- “That Next Generation Internet: The Infrastructure Comes Into Focus”, *Advanced Imaging*, October 1997.



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- “The Next Generation Internet Initiative...”, *Advanced Imaging*, July 1997.
- “Eye of the Beholder”, *Traffic Technology International*, June/July 1997.
- “Video-Based Automatic Vehicle Identification”, *Law Enforcement Technology*, PTN Publishing Co., Melville NY, June 1997.
- “‘SPIHT’ Compression for High Res Video”, *Advanced Imaging*, May 1997.
- “Space Imaging, Earthwatch and the Satellite Imaging Picture in 1997”, *Advanced Imaging*, February 1997.
- “Technology Closeup: License Plate Recognition Systems”, *ITS World*, Advanstar Communications, Eugene OR, January/February 1997.
- “Easy, Inexpensive Image Handling for High-Res, Exacting Images”, *Advanced Imaging*, November 1996.
- “Compression Techniques for Narrowband Channels”, *Broadcast Engineering*, Intertec Publishing Corp., Overland Park KS, August 1996.
- “Image Recognition for Web Content Data Mining”, *Advanced Imaging*, June 1996.
- “Satellite Imaging & GIS for Telecommunications Citing”, *Advanced Imaging*, May 1996.
- “Commercializing Face Recognition...”, *Advanced Imaging*, March 1996.
- “Wavelet-Based Image Compression: Commercializing the Capabilities”, *Advanced Imaging*, January 1996.
- “From Military Remote Sensing to Whole Earth Multimedia...”, *Advanced Imaging*, November 1995.
- “Video Compression”, *Broadcast Engineering*, October 1995.
- “The Latest Introductions for Image & Video Compression”, *Advanced Imaging*, August 1995.
- “Real Telepresence and VR Apps for Commercialized Military Products”, *Advanced Imaging*, July 1995.
- “Integrating Non-Standard Military Imagery and Standard Digital Video”, *Advanced Imaging*, May 1995.
- “Vehicle Recognition: Putting an Imaging Technology on the Road”, *Advanced Imaging*, February 1995.
- “Image Processing for UNIX, Winter 1995”, *Advanced Imaging*, February 1995.
- “MPEG-1, MPEG-2 & You: Light in the Middle of the Tunnel”, *Advanced Imaging*, November 1994.
- “Commercially Available Remote Sensing Imagery Now: What You Can Get, Where”, *Advanced Imaging*, October 1994.
- “The Latest in Image Processing for UNIX”, *Advanced Imaging*, September 1994.
- Multispectral Imagery Users’ Guide: A Comprehensive Reference for the Military and Intelligence Communities*, USAF ReSPO, Multispectral Technology Applications Center, Alexandria VA, Summer 1994.
- “Effective Image Compression for Noisy Over-Air Channels”, *Advanced Imaging*, May 1994.
- “Federal Backing & New Coalitions: A Rebirth for US LCD Display”, *Advanced Imaging*, March 1994.
- “The Latest in Compression Hardware & Software”, *Advanced Imaging*, January 1994.
- “Liberal Arts Meet Hi-Tech: Science & Arts Images Networked on Campus”, *Advanced Imaging*, November 1993.
- “Why Alternatives to JPEG & MPEG Compression Keep on Coming”, *Advanced Imaging*, September 1993.
- “Beyond Acceleration for Real-Time Image Processing”, *Advanced Imaging*, July 1993.
- “Creating an Advanced Image Fusion Business at Harris ISD”, *Advanced Imaging*, May 1993.
- “ICR-Based Automatic License Plate Reading for Canadian Customs”, *Advanced Imaging*, March 1993.
- “Technology Review: Redefining Remote Sensing Systems”, *Earth Observation Magazine*, EOM Inc., Littleton CO, February 1993.
- “Industry & Government Produce Guide for Multispectral Image Pros”, *Advanced Imaging*, January 1993.
- “Broadening High-End Imaging Acceptance: Why So Long?”, *Advanced Imaging*, September 1992.
- “World Remote Sensing Efforts and Global Change”, *Advanced Imaging*, July 1992.
- “Commercializing Image Communications at Lockheed: How It Can Be Done”, *Advanced Imaging*, April 1992.
- “Software for Capturing and Databasing High-Res Color Images: For Art and More”, *Advanced Imaging*, March 1992.
- “IDIMS: IP 25 Years Out of the PECOS and Still Going Strong”, *Advanced Imaging*, October 1991.
- “The Geosphere Project: Toward a Live World Visualization Library”, *Advanced Imaging*, September 1991.
- “Getting Remotely-Sensed Images into More People’s Hands”, *Advanced Imaging*, August 1991.
- “Object Lesson: Will This [Large Format] Camera Ever Get Off-The-Shelf?”, *Advanced Imaging*, June 1991.
- “An ‘Intelligent’ Image Database Tool Commercialized in Canada”, *Advanced Imaging*, April 1991.
- “Commercializing a Military Tracking System at TAU [Corporation]”, *Advanced Imaging*, February 1991.
- “Federal Agencies Speed Processing of Categorized Remote Sensing Images”, *Advanced Imaging*, October 1990.



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- “Map-Based Elevation Models Coming Into Their Own”, *Advanced Imaging*, September 1990.
 “An IP Interface Out of NASA”, *Advanced Imaging*, July 1990.
 “Commercializing an NIH Image Intensifier”, *Advanced Imaging*, June 1990.
 “Military Simulation Standards: The Commercial Fall-Out”, *Advanced Imaging*, April 1990.
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Broadcast Engineering, Intertec Publishing Corp., Overland Park KS, January 1997.
Interactive Video, Telecom Europa Ltd., London UK, Winter 1995.
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SUMMARY

Dr. Heric is a well-organized proactive team player with exceptional achievements in digital imaging and remote sensing applications, complemented by project management and leadership skills.

Matthew Heric



EMPLOYMENT HISTORY

International Association of Virtual Organizations	Durham NC
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Chairman and Executive Director. An advocate for and expeditor of the dynamic, emerging concept of virtual organizations—for business, education and government—through membership and related program efforts.

Frischer-Dambra Corporation	Durham NC
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Vice-President for business development and product management, devoted to educational research and evaluation, remote sensing and program evaluation.

College of William & Mary	Williamsburg VA
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Research Associate in the Center for Coastal Management and Policy of the School of Marine Science.

Autometric, Incorporated	Alexandria VA
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Director of Media Cooperative Programs. Oversaw diverse media and publishing programs including: CD-ROM design, generation and sales, world-wide web/internet systems layout and management as well as related on-line and digital publishing initiatives. As **Program Manager** for the Imagery Applications Division, developed applied statistical analyses for NASA's Large Format Camera, comparative radar data collection and simulation, waste-site environmental monitoring and modeling, treaty verification and qualitative/quantitative testing of airborne and spaceborne (imaging and non-imaging) data collectors. **Chief Scientist** and **Program Manager** with the U-2 airborne reconnaissance effort, **Chief Scientist** and **Product Development Manager** of the NASA/USAF Multispectral Technology Applications Center and **Invited Lecturer** at James Madison University, Old Dominion University and the College of William & Mary.

University of South Carolina	Columbia SC
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Investigated interrelationships among aging and motor function at the School of Public Health and the Science Library.

University of Georgia	Athens GA
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Radiation **Laboratory Technician** for the Division of Public Safety.



EDUCATIONAL HISTORY

Virginia Polytechnic Institute & State University	Blacksburg VA
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Doctor of Philosophy Degree in Educational Research and Program Evaluation (applied quantitative and qualitative methods).

University of South Carolina	Columbia SC
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Master of Science Degree in Geography.

University of Georgia	Athens GA
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Bachelor of Science Degree in Geography.

PROFESSIONAL ACTIVITIES

ASPRS Membership, 1997-2009

Photogrammetric Society of London Membership, 1997-2009

PUBLICATIONS AND PRESENTATIONS

“Virtual Voting and the Future of Political Campaigns”, *The IAVO On-line Journal*, IAVO Inc., Durham NC, March 2000.

“The Billion Dollar ATT Network Gamble”, *The IAVO On-line Journal*, August 1999.

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“Integrations of Structured Query Language with Geographic Information Systems Processing”, *GeoServer International Archives of Photogrammetry and Remote Sensing*, vol XXIX, Washington DC, 1992.



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- “Analysis of TIMS Imagery for the Identification of Man-Made Objects”, *PE&RS* 57:12, pp 1599-1604, 1991.
- “Analog-to-Digital Conversions: An Analysis of Improvements and Degradations in LFC Color Infrared Imagery”, *Symposium Digest: International Geoscience and Remote Sensing Symposium*, College Park MD, 1990.
- “Subpixel Analysis of Man-Made Camouflaged Targets”, *Proceedings of the Camouflage Concealment and Deception Technical Review Group Conference*, Colorado Springs, CO, 1990.
- “Analog-to-Digital Conversions: An Analysis of Improvements and Degradations in LFC Imagery”, *Proceedings of the ASPRS Annual Convention*, Denver CO, 1990.
- “Multispectral Subpixel Analysis”, *Final Report: USAF/INXXT*, The Pentagon, Arlington VA, 1989.
- “Interband Correlations of Visible and Thermal Infrared Radiometer Imagery from the Marine Observation Satellite-I”, *Symposium Digest: IGARSS Canadian Symposium on Remote Sensing*, Vancouver BC, 1989.
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- “Preliminary Analysis of Multispectral Electronic Self-Scanning Radiometer Imagery from the Marine Observation Satellite”, *Proceedings of the Sixth Symposium on Coastal and Ocean Management*, Charleston SC, 1989.
- “Use of Large Format Camera Photography for Archaeological Studies in Jordan, Lebanon and Israel”, *Proceedings of the ASPRS Annual Convention*, Baltimore MD, 1989.
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- “Comparative Characteristics of Radar Scattering Nets”, *Proceedings of the Camouflage Concealment and Deception Technical Review Group Conference*, Alexandria VA, 1988.
- “Land Use/Cover Classification of Cairns, Queensland, Australia: A Remote Sensing Study involving the conjunctive use of the Airborne Imaging Spectrometer and the Large Format Camera”, *Masters Thesis*, University of South Carolina, Columbia SC, 1987.
- “Land Use/Cover Classification of Cairns, Queensland, Australia: A Remote Sensing Study involving the conjunctive use of the Airborne Imaging Spectrometer, the Large Format Camera and the Thematic Mapper Simulator”, *Proceedings of the Airborne Imaging Spectrometer Data Analysis Workshop*, Pasadena CA, 1987.
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GLOSSARY OF ACRONYMS AND TERMS

ADPA American Defense Preparedness Association

AFCEA Armed Forces Communications and Electronics Association

ASPRS American Society for Photogrammetry and Remote Sensing

AVI automatic vehicle identification

AVL automatic vehicle location

CAGE commercial and government entity

CODEC image compression/decompression paradigm

DoD US Department of Defense

DUNS data universal numbering system

EIN federal employer identification number

E-MAIL electronic mail

E-OTEK Electro-Optical Technologies, Inc.

FAS Federation of American Scientists

IAVO International Association of Virtual Organizations

IEEE Institute of Electrical and Electronics Engineers, Inc.

IR&D internal research and development

ITKN Information Technology Knowledge Network

ITS intelligent transportation systems

IV&V independent validation and verification

NAICS North American Industry Classification System

NASA National Aeronautics and Space Administration

NCGA National Computer Graphics Association

NCRI National Consultant Referrals, Inc.

NMIA National Military Intelligence Association

OEM original equipment manufacturer

PE&RS *Photogrammetric Engineering & Remote Sensing*

SPIE Society of Photo-Optical Instrumentation Engineers

URL universal resource locator

USAF US Air Force

VAR value-added reseller

VEU volume end-user

WWW world-wide web

