





INSIDE THIS ISSUE

- ◆ IEEE LI Section Chair's Message | 2
- **FEATURE ARTICLE: Zebra Technologies to Acquire Fetch Robotics** | 5 6
- **Event Calendar** 8
- **Member Benefits** | 9
- + Senior Membership | 10



2020 OUTSTANDING MEMBERSHIP RETENTION PERFORMANCE LONG ISLAND SECTION

CHAIR'S MESSAGE

Although October is a slow month for meetings and events, we do have a Virtual Distinguished Lecturer presentation on the 29th. November, however, brings three interesting meetings of interest to a wide spectrum of the Section membership. Two of them are virtual talks and the third is an in-person celebration of the founding of RCA on Long Island. The virtual

presentations are free to attend. The RCA commemorative celebration will have a \$40 fee.

On October 29, Professor Mohammed Atiquzzaman of the University of Oklahoma will present a VIrtual Distinguished Lecturer talk on extending the internet to spacecraft. Dr. Atiquzzaman is the Editor-in-Chief of Journal of Networks and Computer Applications, the founding Editor-in-Chief of Vehicular Communications and has served on the editorial boards of many IEEE journals and publications. The talk is Connecting Space Assets to the Internet: Challenges and Solutions and the registration link is here.

The Rocky Point Historical Society in collaboration with the IEEE Long Island Section, will commemorate the centennial of the first transoceanic radio transmission from RCA Radio Central. The milestone plaque will be installed at Rocky Point High School at 11 AM. A buffet lunch and presentation will follow at Majestic Gardens. Admission to the luncheon is \$40, payable to: RPHS, PO Box 1720, Rocky Point, NY 11778. Please call 631-839-0490 with any questions. A notice will be going out soon.

On November 9, Alex Wellerstein of the Stevens Institute of Technology will speak on the electrical engineering aspects of nuclear weapon development. Engineering is not the only subject of his talk, however. There's a spy story as well. The presentation is **The Button & the Bomb: Electrical Engineering & Nuclear Weapons.** Register for Professor Wellersteins's talk on vtools here.

On November 11, IEEE Fellow Dr. Kalyan K. Sen, will provide the basic principles of power flow control theory, an overview of the most commonly used power flow controllers, and future trends in controllers. The talk is titled SMART Power Flow Controllers - A Necessity for Future Power Grid and is online. Register for the talk here. As things very slowly return to normal, we look forward to seeing more in-person events and getting the Section membership active again.

Arnold Stillman IEEE Long Island Section Chair, 2021



SECTION OFFICERS, AFFINITY GROUPS, and COMMITTEES







The Pulse of Long Island is produced by the Long Island Section of the Institute of Electrical & Electronics Engineers. It is published monthly except during July & August.

Arnold Stillman, Editor pulse@ieee.li

Anthony Giresi, *Graphic Designer* pulse@ieee.li

The opinions expressed in this newsletter are those of the authors, and no endorsement by IEEE, its officials, or its members is implied. IEEE prohibits discrimination, harassment, and bullying. For more information on IEEE policies, please visit www.ieee.org.

IEEE Long Island Section reserves the right to decide whether or not to publish any content in our sole discretion. Any contributed content may be edited before publishing.



INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS

445 Hoes Lane, Piscataway, NJ 08855-1331

Phone (USA & Canada): 1-800-678-4333 Phone (Worldwide): 1-732-981-0060

Website: www.ieee.org

E-mail: contactcenter@ieee.org

IEEE LONG ISLAND SECTION OFFICERS

CHAIR

ARNOLD STILLMAN chair@ieee.li

VICE CHAIR VACANT

TREASURER
SANTO MAZZOLA
treasurer@ieee.li

SECRETARY
RHONDA GREEN
secretary@ieee.li

JUNIOR PAST CHAIR
LOU D'ONOFRIO

SENIOR PAST CHAIR
MARJANEH ISSAPOUR

AFFINITY GROUPS and **COMMITTEES**

EMPLOYMENT ASSISTANCE

CHARLES PLECKAITIS

eac@ieee.li

EDUCATIONAL ACTIVITIES

MARJANEH ISSAPOUR education@ieee.li

ENTREPRENEUR NETWORK BILL WILKES SR.

MEMBERSHIP DEVELOPMENT CARL MESHENBERG membership@ieee.li

YOUNG PROFESSIONALS YASH CHOWDHURY yp@ieee.li

LIFE MEMBERS

DON GRIECO

life@ieee.li

STUDENT
DEVELOPMENT
ACTIVITIES
GLENN LUCHEN

student@ieee.li
Women in

ENGINEERING (WIE)
MIHAELA RADU
wie@ieee.li

AWARDS
COMMITTEE
NIKOLAOS GOLAS
awards@ieee.li

PROFESSIONAL
ACTIVITIES
NIKOLAOS GOLAS
pace@ieee.li

LEGAL AFFAIRS
JOHN VODOPIA
legal@ieee.li

www.ieee.li THE IEEE LONG ISLAND SECTION WEBSITE

The IEEE LI Section website is regularly updated to reflect recent section activity and upcoming events. Each Society and Affinity Group has a dedicated page that describes their function and includes contact information.

www.licn.org

CONSULTANT'S NETWORK OF LONG ISLAND

The Consultant's Network of Long Island maintains a referral service of engineering, computer, managerial and technical professionals.

membership@ieee.li MEMBERSHIP DEVELOPMENT

For more information on membership with the LI Section of the IEEE, e-mail Carl Meshenberg at: membership@ieee.li





IEEE LI SECTION SOCIETIES and **CHAPTER OFFICERS**



AEROSPACE & ELECTRONIC SYSTEMS SOCIETY (AES)

Chair: **Dave Mesecher** Vice Chair: **Vacant** Email: aes@ieee.li



ANTENNAS AND PROPAGATION SOCIETY (APS)

Chair: **Bryan Tropper**Vice Chair: **Sai Padmanabhan**

Email: ap@ieee.li



CIRCUITS AND SYSTEMS SOCIETY (CAS)

Chair: James Colotti Vice Chair: Supriya Karmakar

Email: cas@ieee.li



COMMUNICATIONS SOCIETY (COMSOC)

Chair: Howard Hausman Vice Chair: Tony Bowden Email: communications@ieee.li



COMPUTER SOCIETY (CS)

Chair: Barbara Porter Vice Chair: Brian Quinn Email: computer@ieee.li



ELECTROMAGNETIC COMPATIBILITY SOCIETY (EMCS)

Chair: James Colotti Vice Chair: Bob DeLisi Email: emc@ieee.li



ENGINEERING IN MEDICINE& BIOLOGY SOCIETY (EMBS)

Chair: John Vodopia Vice Chair: Vacant Email: emb@ieee.li



INSTRUMENTATION AND MEASUREMENT SOCIETY (IMS)

Chair: Joe Jordan
Vice Chair: Ephraim Adeola

Email: im@ieee.li



MICROWAVE THEORY AND TECHNIQUES SOCIETY (MTT)

Chair: Saikumar Padmanabhan Vice Chair: Eric Darvin Email: mtt@ieee.li



NUCLEAR AND PLASMA SCIENCES SOCIETY (NPS)

Chair: **Shaorui Li**Vice Chair: **Graham Smith**Email: nps@ieee.li



PHOTONICS SOCIETY (IPS)

Chair: Adam A. Filos Vice Chair: M. Nazrul Islam Email: photonics@ieee.li



POWER & ENERGY/INDUSTRY APPLICATIONS SOCIETY (PES & IAS)

Chair: Marjaneh Issapour Vice Chair: Lou D'Onofrio Email: power@ieee.li



POWER ELECTRONICS SOCIETY (PELS)

the Section officers.

Chair: Ronald DeLuca
Vice Chair: Predrag Hadzibabic
Email: pels@ieee.li



PRODUCT SAFETY ENGINEERING SOCIETY (PSES)

Chair: **Tom Lanzisero** Vice Chair: **Vacant** Email: safety@ieee.li



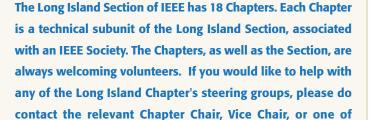
SIGNAL PROCESSING SOCIETY (SPS)

Chair: Jessica Donaldson Vice Chair: Dave Mesecher Email: signal@ieee.li



SOCIAL IMPLICATIONS OF TECHNOLOGY SOCIETY (SSIT)

Chair: Howard Edelman Vice Chair: John Vodopia Email: social@ieee.li





SYSTEMS COUNCIL (SYSC)

Chair: Stephanie White
Vice Chair: Vacant
Email: systems@ieee.li



TECHNOLOGY & ENGINEERING MANAGEMENT SOCIETY (TEMS)

Chair: **Brian Quinn**Vice Chair: **Barbara Porter**Email: tmc@ieee.li





FEATURE ARTICLE

ZEBRA TECHNOLOGIES PRESS RELEASE DATED JULY 1, 2021

ZEBRA TECHNOLOGIES TO ACQUIRE FETCH ROBOTICS

ACQUISITION FURTHER ACCELERATES ZEBRA'S GROWTH IN INTELLIGENT INDUSTRIAL AUTOMATION AS PART OF THE COMPANY'S FOCUS ON ROBOTICS IN CUSTOMER-CENTRIC SOLUTIONS

ZEBRA fetchrobotics



Zebra Technologies Corporation, an innovator at the front line of business with solutions and partners that deliver a performance edge, today announced it intends to acquire Fetch Robotics, a pioneer in on-demand automation. Fetch's Autonomous Mobile Robots (AMRs) are used for optimized picking in fulfillment centers and distribution centers, just-in-time material delivery in manufacturing facilities and automating manual material movement in any facility.

Fetch features the largest portfolio of AMRs in the industry and offers seamless integration with warehouse and manufacturing systems without the need for changes to facilities or infrastructure. Workflow Builder, Fetch's drag and drop workflow development studio, enables out-of-the-box automation so that customers and partners can deploy automated material handling workflows in hours instead of months. Fetch Robotics' AMRs help reduce the impact of labor shortages by improving throughput, efficiency and productivity while working alongside people in fulfillment, distribution and manufacturing environments.

In addition to Fetch Robotics' broad portfolio of AMRs, it offers cloud-based Enterprise Software, FetchCore as the foundational platform for deploying and fully integrating a broad range of automated workflows into manufacturing and warehouse operations and providing unique insights into facilities through machine learning on AMR sensor data. The planned acquisition furthers Zebra's vision to bring advanced robotics solutions to customers who have labor-intensive operations.

Zebra's focus on robotics automation combines workflow solutions for human workers, including current Zebra offerings such as FulfillmentEdge and SmartSight with Fetch Robotics' solutions. The result will provide an innovative offering that





FEATURE ARTICLE

ZEBRA TECHNOLOGIES TO ACQUIRE FETCH ROBOTICS

◆ CONTINUED FROM 5

Fetch has made strong progress as a Zebra Ventures portfolio company. In its early-rapid growth phase, this high gross-margin profile business is generating annualized run-rate sales of approximately \$10 million. Zebra's go-to-market footprint and vertical market expertise is expected to drive synergies as we integrate and invest in the business.



ACCELERATING GROWTH IN INTELLIGENT INDUSTRIAL AUTOMATION

Intelligent Industrial Automation will forever change the frontline of business. As pressures intensify, more organizations will automate repetitive tasks to make better use of workers for high-value jobs. Our vision takes automation to a new level. Zebra and Fetch's combined power elevates human and robotic performance by augmenting their capabilities and coordinating their work and movement in real time. Our promise: faster fulfillment, timely replenishment and autonomous movement of material for higher efficiencies, customer satisfaction and ROI.

Zebra expects to fund the \$290 million purchase price – for the 95% of the business it does not already own – with cash on hand. The transaction is subject to customary closing conditions, including regulatory approval, and is expected to close in the third quarter of 2021.

THE FETCH TEAM IS EXCITED TO JOIN ZEBRA
AND ACCELERATE THE ADOPTION OF FLEXIBLE
AUTOMATION THROUGH AMRS AND OUR
CLOUD-BASED ROBOTICS PLATFORM. TOGETHER
WE HAVE THE RIGHT TEAM WITH THE RIGHT
TECHNOLOGY TO PROVIDE END-TO-END
SOLUTIONS THAT SOLVEREAL CUSTOMER PROBLEMS...
BY HELPING CUSTOMERS DYNAMICALLY
OPTIMIZE AND HOLISTICALLY ORCHESTRATE THEIR
FULFILLMENT, DISTRIBUTION, & MANUFACTURING
OPERATIONS, TOGETHER WE HELP ENABLE THEIR
ABILITY TO STAY AHEAD OF GROWING DEMAND, MINIMIZE

DELIVERY TIMES & ADDRESS SHRINKING LABOR POOLS.

MELONEE WISE, CHIEF EXECUTIVE OFFICER, FETCH ROBOTICS

The acquisition of Fetch Robotics will accelerate our Enterprise Asset Intelligence vision & growth in intelligent industrial automation by embracing new modes of empowering workflows and helping our customers operate more efficiently in increasingly automated, data-powered environments...

This move will also extend our ongoing commitment to optimize the supply chain from the point of production to the point of consumption. We are excited to welcome the Fetch team

ANDERS GUSTAFSSON, CHIEF EXECUTIVE OFFICER OF ZEBRA TECHNOLOGIES

to the Zebra family.

PRESS RELEASE: https://www.zebra.com/us/en/about-zebra/newsroompress-releases/2021/zebra-technologies-to-acquire-fetch-robotics.html?elqTrackl" d=3b2dad26d5904265a6de9e727/9729e8&elqaid=9778&elqat=2





X. ZEBRA | **fetch**robotics

WRITE FOR THE PULSE

VOICE))) HEARD

WRITE TO THE PULSE

The Pulse of Long Island is a newsletter for the members of the IEEE Long Island Section. You can let your voice heard by writing to the Editor. How to bring more value to our members? Interesting new technology, or a project? An issue of interest to members of the IEEE Long Island, Long Island engineers and computer professionals, or Long Island technical community at large? Write to the Pulse. Let your letter be read, and your voice heard.

HOW CAN I CONTRIBUTE TO THE PULSE?

Send your letters or articles via email to **pulse@ieee.li**. If selected for publication, the letter or article will be edited before being published.



ADVERTISERS:

Please contact us at pulse@ieee.li for advertising rates.



20th of a month for the next month edition.

CONTRIBUTIONS FROM LONG ISLAND TECHNICAL & ENGINEERING COMPANIES:

Publish your technology-related press release (up to one page) at no cost. Please send the press release as a PDF file attached to email to **pulse@ieee.li**, addressed to the Editor, with a Subject line "Pulse -PR" followed by your company name, and the responsible contact person's name, email and phone number in the email body.





FPULSE OF LONG ISLAND

CONTRIBUTE TO THE PULSE - LET YOUR LETTER BE READ and LET YOUR YOUR VOICE BE HEARD

THE PULSE OF LONG ISLAND



IEEE-LI SECTION 2020/21 COMBINED AWARDS CEREMONY and DINNER

RESCHEDULED FOR MARCH 2022



RESCHEDULED FOR 2022 POWER ELECTRONICS SYMPOSIUM (PES)

The annual PELS PES has been rescheduled for 2022 because of concerns regarding the on-going COVID pandemic. After careful review of the issues hosting this event the PES committee has decided to take a safe conservative approach and postpone this event to 2022 when we have a better handle on the limitations with regard to social interaction. While this was a difficult decision the committee is ensuring that the high standards with regard to; number of exhibitors and participant attendance and robust presentations we developed over the previous events will be maintained when we host again.

While we are all anxious to get back to our "Normal" industry dynamics, rest assured we are committed to continuing with the annual PES event. Please keep an eye out for future announcements on the future date for the PES and other PELS events.

EXCLUSIVE BENEFIT FOR IEEE MEMBERS



TAKE THE NEXT STEP TO FINDING YOUR DREAM JOB!



Post your job profile free today at www.ieee.org/jobs





EVOnCampus 2.0 is a FREE virtual event and will bring thought leaders directly to recent grads & college students, giving them insights into the tech trends and pathways that lead to challenging and fulfilling careers. **EVOnCampus 2.0** our event EVOlves, an all new event with unique speakers!

>> CLICK HERE TO REGISTER





IEEE MEMBERSHIP and MEMBER BENEFITS

IEEE membership offers access to technical innovation, cutting-edge information, networking opportunities, and exclusive member benefits. Members support IEEE's mission to advance technology for humanity and the profession, while memberships build a platform to introduce careers in technology to students around the world.



JOIN IEEE OR RENEW YOUR MEMBERSHIP

Reach your full potential as part of the world's largest technology community. Join professionals, experts, and advisors who can help shape your career, offer resources to acquire new skills, and advance your professional development.



MEMBER BENEFITS

As an IEEE member, you'll be presented with new resources, valuable opportunities, and many discounts that will help you advance your career in the right direction. You can find colleagues who share your vision and commitment—those who are moving technology forward today.



ENHANCE YOUR MEMBER-SHIP—JOIN AN IEEE SOCIETY

IEEE Societies provide members with opportunities to connect with experts and network with colleagues locally and abroad—all while staying up-to-date on technology and trends in their industry.



GIFT OF MEMBERSHIP

IEEE membership delivers access to the industry's most essential technical information and provides networking opportunities both locally and globally. Members have the ability to stay current in their chosen profession, connect with peers, and invest in their future.



MEMBER-GET-A-MEMBER

Consider sharing your IEEE membership experience and get rewarded for doing so. Through the Member-Get-a-Member (MGM) program, IEEE rewards your efforts in recruiting new members. Your local IEEE Section can also benefit.



IEEE.tv

Made possible by IEEE members, IEEE.tv is an award-winning, Internet-based television network, producing special-interest programming about technology and engineering for IEEE members and the general public.

Get access with new resources, valuable opportunities, and many discounts that will help you advance your career in the right direction.

WHEN YOU JOIN IEEE, YOU:

- Join a community of over 425,000 technology and engineering professionals united by a common desire to continuously learn, interact, collaborate, and innovate
- Get the resources and opportunities you need to keep on top of changes in technology
- · Get involved in standards development
- Network with other professionals in your local area or within a specific technical interest
- Mentor the next generation of engineers and technologists and so much more.

IEEE members can access information on local events and activities by signing in to myIEEE, the members' personalized gateway to IEEE membership. In addition, members can also:

- Access individual Society memberships and subscriptions
- Connect with local IEEE Sections and volunteer leadership
- Find upcoming conferences
 Learn more about individual benefits
- Read the latest news from IEEE, IEEE Spectrum, IEEE Standards News, and The Institute





Call for **IEEE SENIOR** and **LIFE MEMBERS**

You've Always Set Yourself Apart. Now it's Time to make it Official. Nominate Yourself to become a...

IEEE SENIOR MEMBER



Being elevated to senior member recognizes people who have moved beyond entry-level work in their careers. It also encourages them to engage more broadly with engineers and other technical professionals in companies and universities outside their own. To be eligible for senior member status, members must have worked in a professional capacity in a technical field for at least 10 years. Educational experience is partially credited toward that time. Nominees must also have professional references from three IEEE senior members, Fellows, or honorary members. If you're interested in elevation, you don't have to wait to be nominated—you can nominate yourself.

>> APPLY FOR **SENIOR MEMBER GRADE**

IEEE LIFE MEMBERS, WRITE FOR THE **PULSE!**



The Section is inviting you to record your stories and histories in our monthly publication, the Long Island Pulse. An article of approximately 300 – 350 words is recommended.

LET US HEAR FROM YOU.

Send your article to: pulse@ieee.li
Life Member Chair: life@ieee.li

The IEEE Long Island Section has held meetings with many of our Life Members and Senior Engineers, in recent months. Your stories and histories in engineering are interesting, inspiring and should be recorded for future generations. You have served your profession for many years, many have served our country in the military, many as engineers fighting the Cold War. The many contributions are the legacy to this new digital age, space age, environmental age and beyond.

WANTED: IEEE LIFE MEMBER NEEDED TO VOLUNTEER TO SUBMIT A MONTHLY HISTORY ARTICLE FOR THE *PULSE*

The **PULSE** is seeking a IEEE LI Life Member to write the *Long Island Electrical & Electronic History* monthly article for the *Pulse*. If interested contact **pulse@ieee.li**

WE WANT YOUR STORIES



IEEE CONSULTANTS NETWORK OF LONG ISLAND



IEEE **CONSULTANTS NETWORK OF LONG ISLAND**

THE IEEE CONSULTANTS NETWORK OF LONG ISLAND (LICN)

is a nonprofit professional organization affiliated with the Institute of Electrical and Electronics Engineers. Our members include dozens of electrical, electronic, mechanical and software engineers with expertise in over 65 categories of technology and business. All are members of the IEEE and adhere to the IEEE professional codes of ethics.

MEMBER IEEE L.I. CONSULTANTS NETWORK



PETER BUITENKANT **CONSULTANT**

MICROPROCESSOR HARDWARE / SOFTWARE DESIGNS DIGITAL CIRCUIT DESIGN • TRAINING COURSES WEBSITE: www.peterbui-consult.com

24 Thorngrove Lane Dix Hills, NY 11746

VOICE: (631) 491-3414 EMAIL: peterbi

(516) 378-0979

ambertec@ieee.org

Ambertec, P.E.P.C.

John Dunn-MSEE, PE

Member IEEE Consultants Network of Long Island

www.licn.org/Profile/JDunn

181 Marion Avenue

Merrick, NY 11566

Unix/Linux - Windows - Compilers - Communications EARLY ELECTRONICS

Hardware / Software Consulting Services

Real Time Embedded - Financial Services - Transit

Architecture - Object Oriented Design - Java - C/C++ Full Stack - Internet of Things - Mobile Applications

Chris Early, BSEE, MSCS, PE 154 Hempstead Avenue Rockville Centre, NY 11570

unixdev@ix.netcom.com Voice: (516) 764-1067 Fax: (516) 764-1124

SIGNALS IN MOTION

I en Anderson President

Product Development Software Development Rapid Prototypes Data Acquisition Modeling

PHONE: 718-279-3953 FAX: 509-471-6496 E-MAIL: LenAnder@Si E-MAIL: LenAnder@SignalsInMotion.com WEBSITE:www.SignalsInMotion.com Simulations

BODNER & O'ROURKE, LLP PATENTS, TRADEMARKS, COPYRIGHTS AND RELATED MATTERS

GERALD T. BODNER PATENT ATTORNEY

425 BROADHOLLOW ROAD, SUITE 120 MELVILLE, NY 11747 TEL: (631) 249-7500

FAX: (631) 249-4508 gbodner@bodnerorourke.com

ADVANCE IN TECHNOLOGY, INC. Electronic Design — Analog, Digital, RF and Systems

JOHN LIGUORI CEO. MSEE 631-865-2423

82 Westwood Avenue, Deer Park, NY 11729

www.advance-in-technology.com

JLiguori@advance-in-technology.com

Broad Shoulder Consulting LLC

Electronics, Mechanics, Optics, Software

www.broshoco.com

Special Expertise in Medical Imaging System Design, Prototyping and Productization Serving Start-ups and Technology Investors

Dmitriy Yavid Founder 631-706-4696 oco com



Broad Shoulder Consulting, LLC Long Island High Tech Incubator 25 Health Science Drive Mail Box 320 Stony Brook, NY 11790-3350

Fred Katz Consulting, Inc. 93 Steven Place West Hauppauge, NY 11788

Proposals, Contracts & Specification De Innovative Creation, Electro-Mechanical Analog & Digital Circuit/System Design Wireless, Motion, Occupancy Sensors System Analysis/Documentation
Commercial/Military Product Design
Sonar Systems and Acoustic Signal Processing
Security, Marine & Energy Saving, ROHS, UL Testing
Clever Inventions, Algorithm, IP & Patent Developmen

fred@fredkatzconsulting.com

www.fredkatzconsulting.com

Fred Katz Electronics (631) 724-7702 President Memberships: IEEE Senior Life Member, IEEE LI Consultants Network, LI Meta Workers, Mensa Society, NYS Professional Inventors, Suffolk County Inventors

EXPERT WITNESS

TECHNICAL INVESTIGATOR

MARTIN KANNER AE, EE, MEE

PRODUCT LIABILITY

FIRE DAMAGE INJURY LIGHTNING DAMAGE



sixxpoppy@juno.com

(516) 681-4346

POWER -CONTROLS DIV. 42 Glenwood Road

Plainview, NY 11803

EEDEngineering - Quality Software/Testing Solutions

Andrew Franklin Baxt Managing Director of Engineering

Phone: 516-678-6563 Mobile: 561-558-3499 Oceanside, New York 11572 Andrew.Baxt@EEDEngineering.com www.EEDEngineering.com

Carl Meshenberg

Technology Consulting Services

Flectronic Product Development Marketing Strategies

Contract Development & Oversight

Mobile: 516 383-2595

PROGRAMMING PLUS®

2503 AVENUE X BROOKLYN, NY 11235

HARDWARE & SOFTWARE CONSULTING

- ADMINISTRATION DATABASES UNIX
- DEVELOPMENT NETWORKS LINUX
- VMS ENGINEERING INTERNET
- INTEGRATION
- SECURITY
- WINDOWS

For expert assistance, contact Robert Weiner. EE. PE. at: Tel: (718) 648-6902 Email: info@progplus.com Fax: (718) 648-7449 Web: www.progplus.com

IEEE Consultants Network of Long Island

PO Box 411, Malverne NY 11565-0411

www.licn.org

(516) 379-1678

Be sure to visit our web Blog at: licn.typepad.com/my_weblog



Affiliated with the Institute of Electrical and Electronics Engineers, Inc.



John F. Vodopia, Esq.

Intellectual Property Law Firm

133C New York Avenue Huntington, NY 11743

631-673-7555 ext: 5 631-327-6197 (Mobile) 631-425-7030 (Fax)

jvodopia@gmail.com jvodopia@ieee.org









PULSE OF LONG ISLAND