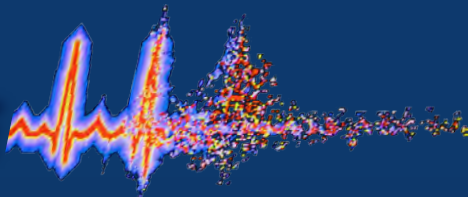




# THE **PULSE** OF LONG ISLAND



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Happy Spring Everyone! We've kicked off the new year with enthusiasm & innovative plans. Our main objective is to make the Section effective and help members meet their professional needs. We're hosting many Society, Affinity Group, and Committee events. Please review the details of each event throughout this publication.

## UPCOMING EVENTS:

April 4 - 6

### **IEEE Region 1 / Region 2 Joint Student Conference**

Many Section members will participate in the at Stony Brook University, IEEE Region 1 / Region 2 Joint Student Conference ([see page 6](#))

April 7th

### **IEEE Long Island Networking Social**

More details to follow via separate email to Section membership ([see page 5](#))

April 17th

### **8th Annual Long Island RF/Microwave Symposium** ([see page 7](#))

Please join me to congratulate IEEE Long Island's Vice Chair, Udit Sharma, for becoming the section's newest Senior Member. IEEE Senior Membership honor was bestowed to Udit for his significant contribution to the engineering profession. ([see page 5](#))

Coming Soon: I'll be hosting an orientation for our newest Section Leads— and don't worry, seasoned members are invited too! Please continue to re-energize your society, affinity group, or committee to ensure we receive the rebates. As always, stay engaged by getting connected and getting involved.

Warmest regards,

**Rhonda Green**

2025 IEEE Long Island Section Chair  
[chair@ieee.li](mailto:chair@ieee.li)



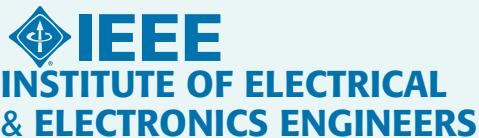
**The Pulse of Long Island** is produced by the Long Island Section of the Institute of Electrical & Electronics Engineers.

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YP@IEEE.LI

### [www.ieee.li](http://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.consult-li.com](http://www.consult-li.com) **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](mailto:membership@ieee.li) **MEMBERSHIP DEVELOPMENT**

For more information on membership with the LI Section of the IEEE, e-mail John Schmidt at: [membership@ieee.li](mailto:membership@ieee.li)

THE IEEE LONG ISLAND SECTION HAS 19 CHAPTERS. EACH CHAPTER IS A TECHNICAL SUBUNIT OF THE LI SECTION, ASSOCIATED WITH AN IEEE SOCIETY. THE CHAPTERS, AS WELL AS THE SECTION, ARE ALWAYS WELCOMING VOLUNTEERS. IF YOU WOULD LIKE TO HELP WITH ANY OF THE CHAPTER'S STEERING GROUPS, PLEASE CONTACT THE RELEVANT CHAPTER CHAIR, VICE CHAIR, OR ONE OF THE SECTION OFFICERS.

 <p><b>AEROSPACE &amp; ELECTRONIC SYSTEMS SOCIETY (AES)</b> Chair: <b>Dave Mesecher</b> Email: <a href="mailto:aes@ieee.li">aes@ieee.li</a></p>	 <p><b>ANTENNAS AND PROPAGATION SOCIETY (APS)</b> Chair: <b>Sai Padmanabhan</b> Email: <a href="mailto:ap@ieee.li">ap@ieee.li</a></p>	 <p><b>CIRCUITS AND SYSTEMS SOCIETY (CAS)</b> Chair: <b>James Colotti</b> Vice Chair: <b>Pawel Janczykowski</b> Email: <a href="mailto:cas@ieee.li">cas@ieee.li</a></p>	 <p><b>COMMUNICATIONS SOCIETY (COMSOC)</b> Chair: <b>Howard Hausman</b> Vice Chair: <b>Tony Bowden</b> Email: <a href="mailto:communications@ieee.li">communications@ieee.li</a></p>
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	 <p><b>SOCIAL IMPLICATIONS OF TECHNOLOGY SOCIETY (SSIT)</b> Chair: <b>Howard Edelman</b> Vice Chair: <b>John Vodopia</b> Email: <a href="mailto:social@ieee.li">social@ieee.li</a></p>	 <p><b>SYSTEMS COUNCIL (SYSC)</b> Chair: <b>Lubna Dajani</b> Email: <a href="mailto:systems@ieee.li">systems@ieee.li</a></p>	 <p><b>TECHNOLOGY &amp; ENGINEERING MANAGEMENT SOCIETY (TEMS)</b> Chair: <b>Barbara Porter</b> Email: <a href="mailto:tmc@ieee.li">tmc@ieee.li</a></p>

# DRIVING INNOVATION: HOW AI IS REVOLUTIONIZING THE FUTURE OF FINANCIAL ERP SYSTEMS

TIRUMALA  
RAO CHIMPIRI

Financial Enterprise Resource Planning (ERP) systems are the core of an organization's financial operations, and they perform everything from budgeting and forecasting to compliance, reporting and audits. But as the business sector undergoes digital transformations, their ERP systems are changing, too. And one of the main drivers of that change is Artificial Intelligence (AI). Finance systems have always required speed, accuracy, and regulatory control. What makes AI so critical in this space isn't just its ability to automate, but how it enhances decision making. Instead of just processing the data, businesses are beginning to really learn from it and gain new insight.

## FROM RULE BASED TO INSIGHT DRIVEN

Legacy service-based ERP systems run on fixed workflow rules. Though effective, they are not flexible enough to meet with today's dynamic business environments and financial industry. With AI, it learns from historical data patterns, detecting anomalies, generating predictive suggestions, and more. Finance leaders are no longer confined to static dashboards but can now access smart insights that are dynamic and evolving with the circumstances.

## WHAT AI BRINGS TO FINANCIAL ERP SYSTEMS

*Enabling AI in ERP systems delivers  
a wide range of value to finance:*

### 1. PREDICTIVE ANALYTICS:

AI expands predictive analytics with learning models, which improve planning & responsiveness.

### 2. AUTOMATED TASKS:

Sophisticated activities like journal entry, closing books, reconciliations, and tax needs can now be automated.

### 3. IMPROVED DECISION SUPPORT:

AI based insights help improve timeliness and quality of decisions.

### 4. COST SAVINGS:

AI can detect inefficiencies, and suggest ideas for cost savings, increasing profitability.

### 5. ENHANCED COMPLIANCE:

AI automates the monitoring of regulations, helping maintain compliance and minimize audit risks.

### 6. REAL-TIME VISIBILITY:

Ongoing insights helps organizations to proactively manage risks and grab opportunities faster.

### 7. FRAUD DETECTION:

Machine learning identifies unusual transaction patterns, helping reduce risk exposure.

## HOW AI IS SOLVING THE EXISTING ERP CHALLENGES

ERP systems have long faced a myriad of pain points, key issues being - rigid architecture, data silos, human errors, delayed decision-making, and scalability. AI enhanced ERP systems are now capable of:

### 1. REDUCING HUMAN ERRORS:

By using automated journal entries and validation checks, AI eliminates human errors and increases audit readiness.

### 2. ENHANCING USER EXPERIENCE:

Predictive assistants and conversational AI simplify complicated interfaces, allowing non-technical users to efficiently interact with ERP systems.

### 3. ACCELERATING DECISION CYCLES:

AI delivers real-time insights, removing delays caused by manual reports and batch processing.

### 4. IMPROVING SYSTEM SCALABILITY:

AI algorithms evolve and learn with increasing data volumes, enabling ERP systems to better respond to shifting business demands.

### 5. REMOVING DATA SILOS:

AI makes it possible to consolidate diverse financial, procurement, HR, and operational data.

These innovations mark a shift from ERP as a static system of record to a dynamic system of intelligence and shaping the future of Financial ERP systems.

CONTINUED ON PAGE 6 ►

DRIVING INNOVATION: **HOW AI IS REVOLUTIONIZING THE FUTURE OF FINANCIAL ERP SYSTEMS**◀ *CONTINUED FROM PAGE 5*

## ENABLING CONTINUOUS INNOVATION

One of the most existing aspects of AI is that it never stops learning. Unlike traditional software that needs to be manually updated or tweaked, AI gets smarter over time by learning from data. That implies financial ERP systems can keep up with evolving regulations, fluctuating economic conditions, and emerging business requirements—providing innovation round-the-clock, not just at pre-scheduled upgrades.

The major ERP Finance providers like Oracle, SAP, Microsoft, and Workday are incorporating AI into their financial modules that enables smarter auditing, better compliance, more efficient spend management, and powerful scenario modeling.

## LOOKING AHEAD

While promising, AI integration with ERP comes with its own challenges. Data quality remains a key issue. AI is only as good as the data it works with, so organizations need to establish AI governance models as well to ensure transparency, ethics, and explainability of AI-driven decisions. There is also a human side to it. Finance professionals must be upskilled to collaborate with AI systems, read insights, and transition from task execution to strategic analysis. Finance teams must recognize AI as a trusted partner and not a replacement.



### **AUTHOR BIO:**

**TIRUMALA RAO CHIMPIRI** is a seasoned IT professional with over 26 years of experience, specializing in enterprise technology and solutions, and cloud-based applications, with a primary focus on Enterprise Resource Planning (ERP). He has a proven track record of delivering high-quality solutions in serving customers across industries including: Higher Education, Financial Services (BFSI), HR Services, Telecommunications, and Transportation & Logistics. He is actively involved in the tech community in committees and as a reviewer for various national and international conferences, has judged for numerous awards—evaluating innovative technologies and contributing to industry standards. His publications on topics such as ERP, Higher Education, and cloud computing have been featured in prestigious technology journals, highlighting his contributions to ERP and Higher Education fields.



Stony Brook University

For More Information

IEEE R1/R2 Joint

[attend.ieee.org/stucon-2025](https://attend.ieee.org/stucon-2025)

# Student Conference 2025



**Conference Dates:**  
APRIL 4-6, 2025

## Friday

- Check In
- Networking

## Saturday

- Competitions
  - Micromouse
  - Sumo Bot
  - Mini Pupper
  - And More!
- Workshops
  - IoT Ideathon
  - WIE Panel
  - And more!

## Sunday

- IBM Cyber Campus
- Project Management

## WHAT IS IEEE R1/R2 STUCON?

IEEE R1 & R2 STUCON, also known as the Student Activities Conference (SAC), is an annual event organized by the IEEE REGIONS 1 and 2. This conference provides students with the opportunity to participate in hands-on workshops, compete in various technical and professional competitions, and network with fellow students, industry professionals, and IEEE leaders.

## IoT Ideathon

Join **IEEE PES/IAS** Long Island for the **IoT Ideathon**, at the IEEE R1 StuCon on April 4th, 2025, at Stony Brook University!

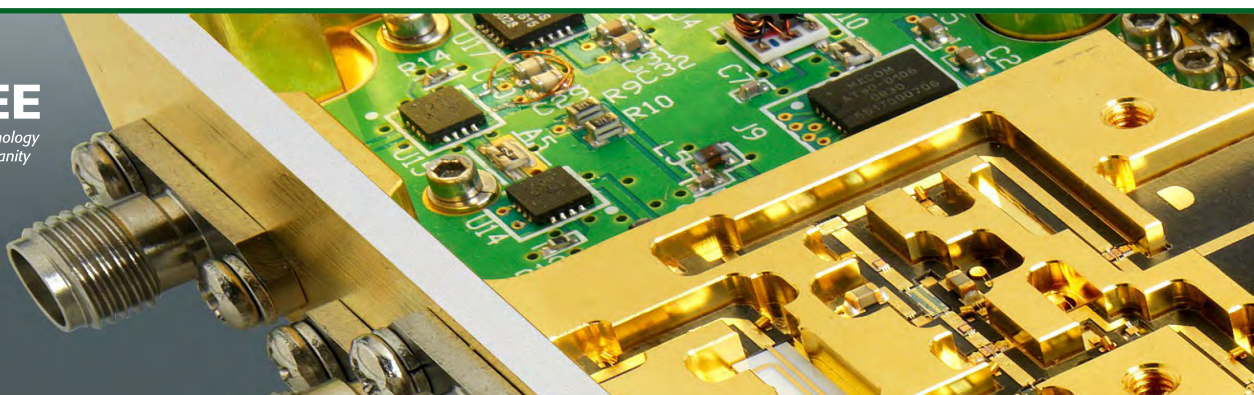
- Learn the basics of IoT and LoRaWAN communication
- Witness the new ideas on Energy Saving Technologies!
- Live Demo and Hands-on Session

## CONFERENCE EVENTS

- Fireside Chat w/Alumni
- Ice Cream & Pizza Social Party
- Micromouse Competition
- Mini Pupper & Brown Bag Competitions
- IEEE Student Ethics Competition
- Women In Engineering (WIE) Panel
- Technical Paper Contest
- Engineer Projects Showcase
- Sumo Bot Competition

## WORKSHOPS

- Challenges & Opportunities in Sustainable Energy
- Amateur (HAM) Radio Lecture
- MangDang Workshop
- Micromouse (The Great Cheese Hunt) Introduction
- Intellectual Property and Patents Lecture
- Software Defined Radio Lecture
- Young Professionals & Machine Learning Lecture
- Technologies to Enable Sustainable AI to the Edge
- IoT Ideathon (Extended Workshop)



## 2025 MICROWAVE/RF/ WIRELESS SYMPOSIUM & EXHIBITS RADISSON HOTEL, HAUPPAUGE • THURSDAY, APRIL 17, 2025 110 VANDERBILT MOTOR PKWY, HAUPPAUGE

**FREE ADMISSION ALL INVITED, MEMBERS, NON-MEMBERS – BUT REGISTRATION IS REQUIRED**

The **8th Annual Long Island RF/Microwave Symposium & Exhibits: New Trends** is the area's premier event that brings together the Microwave, Millimeter Wave & RF community. All Long Island Engineers, Managers, Students and Technical Professionals involved in these fields are invited. Registered attendees will receive admission to the exhibit floor, technical lectures, complimentary lunch, the networking event and complimentary dinner. **The first 200 registered attendees will also receive a complimentary swag bag.**

9:00 AM - 8:00 PM • ARRIVE / LEAVE ANYTIME

### LECTURE, LUNCH AND DINNER PROGRAM SCHEDULE:

10:00 AM – 12:00 PM	WORKSHOP SESSIONS BOARDROOM	WORKSHOP #1	PREPARING FOR PCIE ELECTRICAL MEASUREMENTS BEYOND 64GT/S AUTOMATION OF STANDARD (METHOD OF IMPLEMENTATION) ERIC OSEASSEN, Staff Application Engineer, Rohde & Schwarz USA
2:00 PM – 4:00 PM		WORKSHOP #2	LNA DEVELOPMENT PERTAINING TO THEIR APPLICATION IN QUANTUM COMPUTING" HOWARD HAUSMAN, President/CEO, RF Microwave Consulting Services, Adj. Prof., Hofstra
12:00 PM - 1:00 PM	NETWORKING LUNCH (Complimentary)		
12:00 PM - 7:00 PM	EXHIBITS (GRAND BALLROOM)		
1:00 PM - 1:55 PM	LECTURE #1	NEW TRENDS IN MOBILE COMMUNICATIONS - 5G ADVANCING TO 6G (VIRTUAL PRESENTATION) DR M. H. KORI, Consultant Telecom Standards Development Society India (TSDSI), Technology Advisor SAGE USA. Former Head of Lucent Technologies	TECHNICAL SESSIONS HUNTINGTON ROOM
2:00 PM – 2:55 PM	LECTURE #2	DEVELOPMENT OF 6G FR3 CHANNEL SOUNDER FOR STUDIES INCLUDING LOSS CHARACTERIZATION OF FR3 BY MINI-CIRCUITS and NYU WIRELESS DANIEL FORD, High Frequency Product Line Engineering Manager of Mini-Circuits	
3:00 PM – 3:30 PM	COFFEE BRRAK (Complimentary)		
3:30 PM – 4:25 PM	LECTURE #3	OPTICAL CESIUM ATOMIC CLOCKS ENHANCE SHOR-TERM STABILITY FORPRECISION TIMING APPLICATIONS IN RADAR, NAVIGATION AND SECURE TELECOMMUNICATION WALTER ROJAS, Sr. Business Development Mgr, North America Oscilloquartz SA Switzerland	
4:30 PM – 5:50 PM	LECTURE #4	NEW TRENDS IN MOBILE COMMUNICATIONS: 6G RIS - FROM CONCEPT TO DEPLOYMENT INCLUDING DEMONSTRATION VINCENT LEE, Account Manager TMYTEK Technology, Inc Taipei, Taiwan	
6:00 PM – 6:10 PM	ACKNOWLEDGMENTS and CLOSING REMARKS		
6:00 PM – 8:00 PM	NETWORKING DINNER (Complimentary) with Cash Bar		



### REGISTRATION LINKS:

#### EXHIBITORS:

[events.vtools.ieee.org/m/469559](https://events.vtools.ieee.org/m/469559)

#### ATTENDEES:

[events.vtools.ieee.org/m/469561](https://events.vtools.ieee.org/m/469561)

### SPONSORS:

- BGA Test & Technology
- Keysight Technology
- Mini Circuits
- RFMW

*Subject to change: please check the Symposium webpage for the latest information.*



May 13th - 14th, 2025

# ICETM 2025

INTERNATIONAL CONFERENCE ON ENGINEERING, TECHNOLOGY &amp; MANAGEMENT

[AMITY.EDU/ICETM-2025](http://AMITY.EDU/ICETM-2025)Fairleigh Dickinson University, Florham Campus,  
285 Madison Avenue, Madison New Jersey 07940

## ABOUT

**Engineering, Technology & Management** is a field that combines engineering, technology and management skills together. It is a specialized kind of management which brings together the technological problem-solving ability of engineering and the organizational, administrative, legal and planning abilities of management in order to oversee the operational performance of complex engineering-driven enterprises.

The interdependency of different domain provides greater areas for consideration while deducing postulates. The speed with which operations are getting transformed is phenomenal. Automation, which is largely dependent on computation, is playing a bigger role in these transformations. The productivity quotient has gone up with zero rejects. Mathematical modelling has come to stay as integral component to test the computational designs, for their veracity and usefulness. As technology increasingly becomes a centerpiece in the day-to-day operations of most organizations, the real-world engineering practice as well as acumen in the principles of business management will continue to grow.

## OBJECTIVES:

The objective of the conference is to address the most essential issues of engineering, technology, computation, automation and knowledge management. It also serves to foster communication among researchers and practitioners working in a wide variety of scientific areas with a common interest in improvement of Engineering, Technology and Knowledge Management related tools and techniques.

It aims to bring in the academicians and practitioners to jointly discuss and deliberate through their plenary talks and paper presentations on the theme Engineering, Information Technology, Operations and Knowledge Management. The conference will provide a common platform to foster research relations between the Universities and the industry. The vision of the conference is to bring together technology geniuses in one venue not only to present breakthrough research in the area of computation and automation application but also to promote practicality and applications in inter disciplinary exchange of ideas.





**WIE**  
FORUM  
**USA**  
EAST

**INNOVATE**  
to  
**ELEVATE**



[ieee.org/wie-forum-usa-east-2025](https://www.ieee.org/wie-forum-usa-east-2025)

NOVEMBER 6-8, 2025

RITZ-CARLTON PENTAGON CITY

ARLINGTON, VA

The **IEEE Women in Engineering (WIE) Forum USA East** is dedicated to fostering leadership development for professionals at every career stage. Rotating between IEEE Region 1 and Region 2 in the Northeast USA, our forum offers attendees the chance to gain inspiration and empowerment from renowned leaders. Through dynamic workshops and engaging panel discussions, participants will explore emerging technologies and innovative STEM outreach initiatives.

## INSPIRE

Ignite positive career and personal growth

## EMPOWER

Unleash your full potential

## LEAD

Elevate your leadership skills and career trajectory

## CAREER FAIRS

Connect with leading organizations

## WORKSHOPS

Develop and enhance essential skills

[HTTPS://ATTEND.IEEE.ORG/WIE-FORUM-USA-EAST-2025/REGISTRATION/](https://attend.ieee.org/wie-forum-usa-east-2025/registration/)

### KEY DATES

### DEADLINES

Call For Participation	February 17, 2025
General Registration Opens	April 14, 2025
Speaker Registration	August 29, 2025
Early Registration Deadline	September 26, 2025
Forum Commencement	November 6, 2025
Career Fair	November 7, 2025
Forum Conclusion	November 8, 2025

### SPONSOR



Support the conference mission to inspire and empower women as leaders in engineering and technology

### REGISTER



Register to the forum to be inspired, empowered, and lead your career

### PARTICIPATE



Participate as a speaker to inspire, empower, and foster innovation in engineering and technology

### LINKEDIN:

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IEEE Women in Engineering  
*WIE*

# IEEE MEMBERSHIP and MEMBER BENEFITS

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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.



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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.

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- 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.

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  - 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

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# LOOKING FOR AN UPDATE ON SECTION EVENTS?

FOR UPDATES ON ALL LONG ISLAND SECTION EVENTS, CHECK OUT THE IEEE LONG ISLAND SECTION WEBSITE:

[www.ieee.li](http://www.ieee.li)



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Dear **UDIT SHARMA**,

It is a great pleasure to congratulate you on your elevation to the grade of **IEEE Senior member**. IEEE Senior Membership is an honor bestowed only to those who have made significant contributions to the profession.

### AS AN IEEE SENIOR MEMBER, YOU RECEIVE THE FOLLOWING BENEFITS:

#### RECOGNITION:

Professional recognition of your peers for technical and professional excellence.

#### ABILITY TO REFER OTHER CANDIDATES:

Senior members can serve as a reference for other applicants for Senior Membership.

#### LEADERSHIP ELIGIBILITY

Senior members are eligible to hold executive IEEE volunteer positions.

#### REVIEW PANEL:

Senior members are invited to be on the panel to review Senior member applications.

#### SENIOR MEMBER PLAQUE:

An engraved plaque you can proudly display to colleagues, clients and employers.

#### ONE COMPLIMENTARY SOCIETY:

You will be given the opportunity to join one new IEEE Society to which you do not already belong.

## UPCOMING SECTION EVENTS



MONDAY, APRIL 7

### IEEE LI MEMBER NETWORKING SOCIAL

Location will be shared via separate email to Section membership. There is no charge to attend for IEEE Long Island members and one guest. Registration is required.

Relaxed, informal environment with a variety of free food all night

No need to be shy – each guest is personally greeted upon arrival and all guests wear a name badge making it easy to start a conversation!

Meet fellow engineers that face the same challenges you do

Catch up with friends and colleagues

Students Welcome! Meet students from other universities and chat with practicing engineers

*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](mailto:pulse@ieee.li)  
Life Member Chair: [life@ieee.li](mailto: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](mailto:pulse@ieee.li)

## WE WANT YOUR STORIES

# LET YOUR VOICE BE 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.



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## HOW CAN I CONTRIBUTE TO THE PULSE?

Send your letters or articles via email to [pulse@ieee.li](mailto:pulse@ieee.li). If selected for publication, the letter or article will be edited before being published.

**CONTRIBUTION DEADLINE:**  
20th of a month for the next month edition.



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



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### 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.

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