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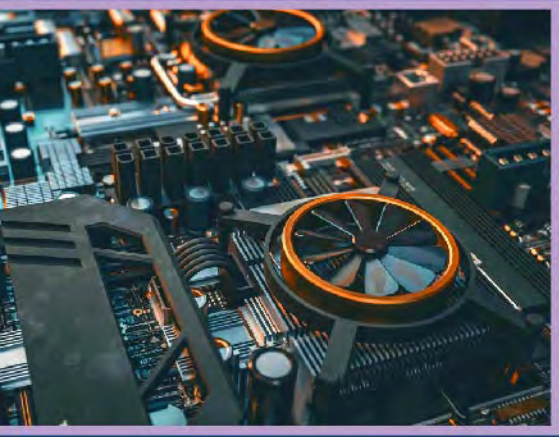
IEEE | LONG ISLAND SECTION

THE PULSE OF LONG ISLAND



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PRODUCED BY THE LONG ISLAND SECTION OF THE INSTITUTE OF ELECTRICAL & ELECTRONICS ENGINEERS

Welcome to Summer 2025! As we approach the midpoint of the year, I'm proud to share that the IEEE Long Island Section has already achieved several exciting firsts in 2025—thanks to your dedication, support, and commitment to excellence. One major highlight was the **IEEE R1/R2 Student Conference 2025**, held at Stony Brook University. The enthusiasm and generosity of our volunteers and financial supporters were unparalleled and instrumental to the event's success.

The **Amity University International Conference on Engineering, Technology & Management (ICETM) 2025**, hosted at Fairleigh Dickinson University's New Jersey campus, marked another milestone. It was the first time this IEEE joint-conference took place in the United States—and the Long Island Section proudly served as both technical sponsor and Steering Committee participant.

We also celebrated record-setting performance at the **IEEE MicroMouse Competition**, once again hosted by New York Tech. The Stevens Institute of Technology achieved a remarkable Region 1/Region 2 milestone, reaching the goal in just 14 seconds.

These groundbreaking accomplishments will be featured in my upcoming Section Leader Report, to be presented at the IEEE Region 1 and Region 2 Joint Meeting in Arlington, VA.

Thank you for your continued contributions and leadership. I hope you enjoy a safe and restful summer, and I look forward to reconnecting at our next ExCom meeting on September 23rd.

Warm regards,

Rhonda Green
2025 IEEE Long Island Section Chair
chair@ieee.li

IEEE LONG ISLAND SECTION

THE PULSE OF LONG ISLAND

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

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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
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 John Schmidt at: **membership@ieee.li**

IEEE LI SECTION SOCIETIES AND CHAPTER OFFICERS

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.

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SATURDAY, JULY 19

IEEE LI SOCIAL EVENT

LONG ISLAND DUCKS FIREWORKS NIGHT

Come join the IEEE Long Island Section & enjoy a **Long Island Ducks baseball game with fireworks** afterwards! The game starts on **Saturday, July 19th** at **6:35 PM** (gates open at 5:35pm.) when the LI Ducks take on the Charleston Dirty Birds.Tickets are $23.00 each and parking is FREE. Part of the proceeds will help support **FIRST Robotics** competitions for the Long Island region. Invite your family and friends and have a fun night of baseball and fireworks! Act quickly because registration closes on July 14th at 11:59 PM.

>> Click here to Register & Get Tickets

IEEE computer society

DATE & TIME: June 2025 (TBD)

IEEE LI COMPUTER SOCIETY COMPUTER SOCIETY MEMBER CONNECT

Virtual (Zoom) Meet-Up for Collaboration, Ideas and Community Building

REGISTRATION LINK: Coming Soon

LET'S CONNECT!

IEEE LI Computer Society invites you to join fellow Computer Society members and tech professionals for a casual virtual gathering designed to foster collaboration, networking, and new ideas.

This is your opportunity to:

- Meet your local Computer Society community
- Share your professional interests and expertise
- Learn about upcoming events, volunteer roles, and initiatives
- Contribute ideas for future programs, talks, or symposiums
- Ask questions and engage with section leadership

Current & prospective IEEE Computer Society members, professionals and technologists in computing fields, volunteers, speakers, future leaders, and anyone curious about getting more involved in IEEE are encouraged to attend.

FOR MORE INFO CONTACT:

Tirumala Rao Chimpiri, Computer Society Chair
Email: tiru.chimpiri@gmail.com
computer@ieee.li

IEEE REGION 1 & 2 STUCON 2025: A RESOUNDING SUCCESS!

Held on April 4th to 6th, 2025 at Stony Brook University, **STUCON 2025** marked a historic milestone, with the largest attendance ever (300+). And, the event included participation from 40 student branches across 14 states. The conference was superbly managed by the Stony Brook University Student Branch, under the leadership of Dr. Ali Abedi and Dr. Li Bai, showcasing exceptional organizational skills and teamwork.

Dr. Saifur Rahman, IEEE President (2023)

IEEE R1 / R2 Leadership

Stucon 2025 Micromouse Maze

STUCON 2025 was packed with inspirational and motivational activities, including hands-on workshops, technical competitions, and networking opportunities. The conference culminated in a memorable dinner speech by Dr. Saifur Rahman, IEEE President (2023), which left attendees inspired and energized. The conference also featured an exciting awards ceremony, celebrating the achievements of participants and fostering a spirit of innovation and collaboration.

IEEE LONG ISLAND SECTION

The 3rd Annual Micromouse of Long Island 2025 Competition:

STEVENS INSTITUTE OF TECHNOLOGY SETS A MICROMOUSE RECORD RUN FOR IEEE REGIONS 1AND 2

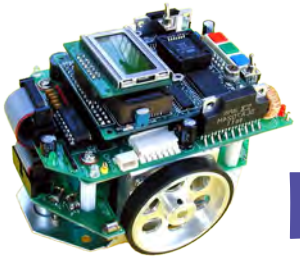
DR. ANDREW R. SASS
Vice Chair, IEEE RAS

On May 9, 2025, Stevens Institute of Technology Micromouse team established a Micromouse Region 1,2 record run of 14 sec in a 16 x 16 maze at the **Micromouse of Long Island 2025 Competition** at NYIT, Old Westbury, NY. Micromouse of Long Island 2025 was the 3rd annual Micromouse event sponsored by the Long Island Section of the IEEE.

The run was applauded by the students from 5 attending schools, NYIT OW, NYIT NYC, Stony Brook University, Rutgers University, & Stevens Institute of Technology. 8 teams comprised of 27 students competed in four events; Micromouse, Labyrinth Race, Mouse Track, and Best Presentation.

Also, Stony Brook University and Rutgers University became eligible to receive $250 each as part of the $3,000 grant awarded to MM25 earlier this year for their participation in the Mouse Track event.

CLICK ON THE VIDEO LINK BELOW TO VIEW THE STEVENS RECORD RUN:
drive.google.com/file/d/10RV5uWIwGqgXYooCkag7jg4E3lwtyki_/view?usp=sharing



MICROMOUSE COMPETITION FAST FACTS

COMPETITION VENUE:
NYIT, Old Westbury

PARTICIPATING SCHOOLS:
NYIT Old Westbury
NYIT NYC
Stony Brook University
Rutgers University
Stevens Institute of Technology

NUMBER OF TEAMS:
Eight

NUMBER OF IEEE STUDENTS:
Twenty-Seven

NUMBER OF EVENTS:
Four

NUMBER OF IEEE VOLUNTEERS/ JUDGES:
6 plus Gim Soon Wan and A.R. SASS

MICROMOUSE RESULTS
1ST PLACE: Stevens Institute of Technology
2ND PLACE: Stony Brook University
3RD PLACE: Rutgers University

LABYRINTH RACE RESULTS
1ST PLACE: Stevens Institute of Technology
2ND PLACE: Rutgers University
3RD PLACe: NYIT Old Westbury

MOUSE TRACK-BASIC RESULTS
1ST PLACE: Stevens Institute of Technology
2ND PLACE: Rutgers University

BEST PRESENTATION
1ST PLACE: Stevens Institute of Technology
2ND PLACE: Rutgers University
3RD PLACe: Stony Brook University

IEEE REGION 1,2 MICROMOUSE RUN RECORD
Stevens Institute of Technology Sets IEEE Region 1,2 Record In Micromouse Competition. Time To Goal: **14 Seconds.** In A Display of Mastery, The Stevens Robot Traveled To Goal And Returned To Start Multiple Times At Varying Speeds.

IEEE LONG ISLAND SECTION

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

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.

CONTRIBUTION DEADLINE:

20th of a month for the next month edition.

IEEE | LONG ISLAND SECTION

THE PULSE OF LONG ISLAND

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

ERP IN TRANSITION: MOVING FROM LEGACY TO CLOUD-NATIVE SYSTEMS

TIRUMALA RAO CHIMPIRI
Computer Society Chair

ERP systems aren't new— they've been the backbone of core business tasks like payroll, budgeting, and purchasing for decades. In the old days, most of these systems were installed on-site, managed by internal teams, and customized over time to fit specific needs. That approach worked for a time, but it's becoming harder to maintain. Things have changed. Business moves faster now. Departments need to stay in sync even when people are working remotely or across locations. Many of these older systems are showing their age. What once felt reliable now feels slow, rigid, or just out of place. That's why a lot of organizations are looking at the cloud, not just for better software, but for a more adaptable way to run things. This shift isn't just a technical one. It is a chance to rethink how teams access data, how fast they can respond, and how easy it is to roll out improvements. Cloud ERP offers a way to move faster and avoid the headaches that come with maintaining outdated infrastructure.

THE LIMITS OF LEGACY ERP:

Legacy ERP systems had their moment. They brought structure, helped standardize processes, and supported organizations for years. But today, their shortcomings are getting harder to overlook.

HARD TO CHANGE:

Many of these systems were built on old technology stacks. Making even small changes to meet new business or regulatory needs often requires a big effort.

HEAVY ON IT:

Keeping these systems running smoothly means constant updates, patching, and infrastructure work. That eats up time and resources.

TIED TO THE DESK:

Older ERP platforms weren't built for mobile access or remote teams, which makes collaboration harder in today's flexible work culture.

PAINFUL UPGRADES:

Custom code & years of workarounds can turn a routine system update into a months-long project full of risk.

DATA SILOS:

Integrating legacy ERP with modern tools can be cumbersome, leading to fragmented workflows and inconsistent reporting across departments.

These limitations are pushing many organizations to start thinking seriously about alternatives—solutions that are easier to manage, more responsive, and built for how people work today.

CONTINUED ON PAGE 9

ERP IN TRANSITION:
MOVING FROM LEGACY TO CLOUD-NATIVE SYSTEMS

CONTINUED FROM PAGE 8

WHY CLOUD ERP IS GAINING MOMENTUM:

Cloud ERP keeps popping up in IT plans—and for good reason. It tackles issues that legacy systems have struggled with for years. The cloud brings flexibility, automatic updates, and the kind of real-time access that today's businesses rely on. For organizations tired of struggling with upgrades or juggling disconnected systems, the move to cloud ERP often feels like a long-overdue fix. Here's what's driving the shift:

QUICKER ROLLOUTS:

New features or modules can be deployed faster, in weeks, not months, which helps teams don't have to wait months to get up and running with new features.

FEWER IT HEADACHES:

Instead of patching servers or scheduling downtime for upgrades, cloud service provider handles the infrastructure management. This allows internal IT teams to focus more on strategic projects.

ACCESS FROM ANYWHERE:

Whether you're in the office, remote, or somewhere in between, cloud ERP lets you check reports, approve requests, or collaborate with coworkers. That kind of access makes it easier to keep things moving, no matter where people are working from.

EASIER TO PLUG IN OTHER TOOLS:

Most cloud systems are built to integrate, so connecting with payroll software, analytics platforms, or CRM tools doesn't feel like a one-off project.

For many industries, especially ones navigating tight budgets or evolving regulations, cloud ERP provides a cleaner, more sustainable way forward without the heavy baggage of older systems.

INDUSTRY-SPECIFIC BENEFITS: A CLOSER LOOK

The benefits of moving ERP to the cloud aren't one-size-fits-all. What matters most in a university looks different than what's needed in a hospital or finance office. But in every case, cloud systems are helping teams solve old problems in more manageable ways.

HIGHER EDUCATION

Ask anyone working in university admin, and they'll probably describe a stack of disconnected tools that don't talk to each other. HR in one system, budgeting in another, and enrollment on its own island. Cloud ERP helps bring those silos together. Staff can spend less time chasing data across platforms and more time actually using it. So, when leadership needs answers, they're not digging through spreadsheets—they already have the numbers in front of them.

FINANCE

In finance, speed and accuracy are the name of the game. Month-end closings, audit prep, forecasting—all of it relies on having clean, accessible data. Without that, everything slows down. Cloud ERP makes that easier. It automates the routine stuff, pulls together the right reports, and lets finance teams do more than just keep the books. That frees them up to focus on what really matters—like identifying risks, planning ahead, and spotting new opportunities.

HEALTHCARE

In healthcare, things move fast, but the systems supporting them often don't. Supplies must be where they're needed; staff schedules need careful coordination. Billing must be accurate, or revenue gets delayed. A cloud-based ERP gives healthcare leaders more control over all of that without slowing down care. Additionally, staying compliant with healthcare regulations gets a whole lot easier when the system's tracking it all as it happens.

CONTINUED ON PAGE 10

ERP IN TRANSITION:
MOVING FROM LEGACY TO CLOUD-NATIVE SYSTEMS

CONTINUED FROM PAGE 9

FROM CUSTOMIZATION TO CONFIGURATION:

Legacy ERP systems needed custom code just to meet business needs. Every tweak required a developer, and over time, all those customizations piled up, which means even a small update can turn into a trouble-shooting nightmare.

That's where cloud ERP takes a different path. Instead of writing new code, most updates now happen through configuration. Want to change a workflow? Adjust a form? Update user access? These changes can be made using built-in tools. Most don't require coding or a long wait for IT.

Additionally, the rise of low-code and no-code features is opening the door for everyday users, those who understand the business process to step in and shape their workflows. They can automate tasks, fine-tune reports, or even build small apps, without needing to speak the language of code. That kind of flexibility means teams can respond faster to changing needs, with less reliance on developers.

NAVIGATING THE CHALLENGES:

Moving from a legacy ERP system to the cloud isn't always straightforward. Migrating years of scattered, inconsistent data takes time. Custom code often doesn't carry over cleanly, and integrating cloud ERP with existing tools can be a technical hurdle. All of this makes the transition a lot more than just a software swap.

There's also the human element. Change can create confusion or pushback if users aren't brought along. Security and compliance checks must be done early to avoid gaps. And while cloud ERP can cut costs long-term, the upfront investment still requires planning and support.

WHAT'S NEXT?

Cloud ERP isn't a future concept anymore—it's already here, and it's working, and running in businesses across just about every sector. The major vendors like Oracle, SAP, Microsoft, and Workday aren't just selling ERP platforms—they're building ecosystems around them. New features roll out regularly.

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. Tiru Rao Chimpiri is the Chair of the Long Island Section Computer Society

IEEE LONG ISLAND SYMPOSIUM: AI IN CLOUD COMPUTING

JULY 2025 (EXACT DATE TBD) • VIRTUAL via ZOOM

ABOUT THE SYMPOSIUM

Join us for an exciting virtual event that explores how Artificial Intelligence is transforming Cloud Computing across enterprise, education, and government sectors. The symposium will convene innovators, technologists, and thought leaders to showcase real-world applications, implementation strategies, and emerging research at the intersection of AI and cloud technologies.

CALL FOR SPEAKERS

The IEEE Long Island Computer Society invites professionals, researchers, and technologists to submit speaker proposals for the upcoming virtual symposium. We welcome proposals that spark meaningful discussion, deliver practical insights, and inspire future innovation. **Topics of Interest Include:**

- AI-powered automation in cloud-based enterprise systems
- Intelligent cloud platforms for education and public sector
- Generative AI applications in cloud environments
- MLOps and lifecycle management in the cloud
- Secure and ethical AI governance in the cloud
- Low-code/No-code AI development on cloud platforms
- AI for performance optimization and observability
- Hybrid and multi-cloud strategies for scalable AI
- Case studies from industry, academia, and government
- Relevant topics in the AI–Cloud intersection

WHY SPEAK?

- Share your expertise with a global IEEE audience
- Showcase your innovative work in AI and cloud
- Network with technologists, educators, and public-sector leaders
- Be featured in post-event publications or IEEE LI Pulse Magazine
- Receive an official Certificate of participation

SUBMISSION GUIDELINES:

Please include the following in a single PDF file:

- Talk title
- 200-word Abstract with three learning objectives
- Speaker Bio (100-150 words)

DEADLINE:

Submissions accepted until June 15, 2025

SEND PROPOSALS TO:

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Barbara Porter
Vice Chair, IEEE LI Computer Society

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IEEE LONG ISLAND SECTION

IEEE WIE FORUM USA EAST

INNOVATE to ELEVATE

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/

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

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IEEE Women in Engineering We

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IEEE LI SECTION POWER ELECTRONICS SYMPOSIUM 2025

All professionals (engineers, managers, etc.) involved in the use, design, qualification, test or manufacture of power supplies, power converters, power management, servos or energy storage are invited. All sectors of power electronics are represented including military, industrial, medical, space, consumer and automotive. The first 200 registered attendees will also receive a complimentary swag bag.

CALL FOR PAPERS

Abstract, viewgraphs, speaker bios and speaker contact information are due **October 3, 2025**. Scheduling of qualified papers is accomplished on a first-come/first-served basis. Notification of acceptance by **October 16, 2025.**

FREE GENERAL ATTENDANCE
REGISTRATION OPENS AUGUST 2024

A free invitation is extended to all Engineers, Managers, other Professionals and Students involved in the use, design, qualification, test or manufacture of power supplies, power converters, power management or energy storage. Registered attendees will receive complimentary networking lunch, admission to the exhibit floor, technical lectures, and a complimentary networking dinner.

EXHIBITORS
REGISTRATION OPENS JUNE 2024

Limited exhibitor space is available to Long Island companies and reps that cover Long Island involved in the design, qualification, test or manufacture of power supplies, power converters, power management or energy storage. Tables are 2.5' x 8' and are provided with two chairs. All exhibitors are invited to provide business cards and giveaways for the swag bags. Exhibitors are also invited to enjoy the complimentary networking lunch and the complimentary networking dinner. Exhibitor tables are offered at $495

SPONSORS
REGISTRATION OPENS JUNE 2024

A sponsorship entitles you to one free table with preferential placement. In addition, your company logo is prominently placed on the 200 swag bags, symposium flyer, and on all event posters. As a sponsor, you are also entitled to have up to two business cards and two items placed in the event swag bags. The number of sponsorship opportunities is limited to five and are available on a first-come, first-served basis. Sponsorships are offered at $1000.

FOR MORE INFORMATION, GENERAL REGISTRATION, EXHIBITOR REGISTRATION, SPONSOR REGISTRATION AND CALL FOR PAPERS: **www.ieee.li/pes**

IEEE LONG ISLAND SECTION

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 MEMBERSHIP, 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.

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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**
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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**

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