



THE **PULSE** OF LONG ISLAND



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Dear IEEE Long Island Section Members: Welcome to the autumnal equinox, a time of year that can be best enjoyed with seasonal foods, reflections on the tenuous balance between daylight and darkness and/or a vigorous celebration of **IEEE Day**.

That's on October. 7, and as I write this in late September, it's part of a full slate of upcoming events on our busy fall calendar.

IEEE Day is celebrated to recognize the institute's very first technical meeting back in 1884 – the one that started it all. Region 1 encourages you to host a local event somewhere in the Oct. 5-18 range, and you can find plenty more information on the importance of the day and ways you might celebrate it right here. Please reference the official website for more information: <https://ieeeday.org/>.

I'd also like to note preparations for the Section 2026 Election. Junior Past Chair Arnie Stillman is leading the Nomination Committee and has started the nomination process. Please watch for more election directives from Arnie.

Planning is already underway for the **2025 Long Island Power Electronics Symposium & Exhibition**, scheduled to be held on Nov. 6 at the Radisson Hotel in Hauppauge. For more information on the power-electronics community's premier annual event, check out this page: <https://www.ieee.li/pes/>.

Congratulations to Sean J. Bentley, PhD, the new chairman of the IEEE Photonics Society-Long Island Chapter. Sean's 25 years of IEEE membership – including 18 years in the Photonics Society – makes him uniquely qualified to lead the revitalization of this important chapter. We look forward to working with him as he rebuilds the Photonics Society.

We are always in need of energetic volunteers with positive and collaborative attitudes to help us with IEEE Long Island Section activities. I encourage all members to become actively involved in supporting the section and thank you for your continued support. I also look forward to connecting with many of you at our upcoming events. Nothing makes our community thrive like sharing ideas and building on our collective knowledge!

With gratitude and anticipation,

Rhonda Green

2025 IEEE Long Island Section Chair
chair@ieee.li



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LONG ISLAND SECTION

THE PULSE OF LONG ISLAND

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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

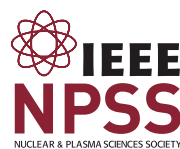


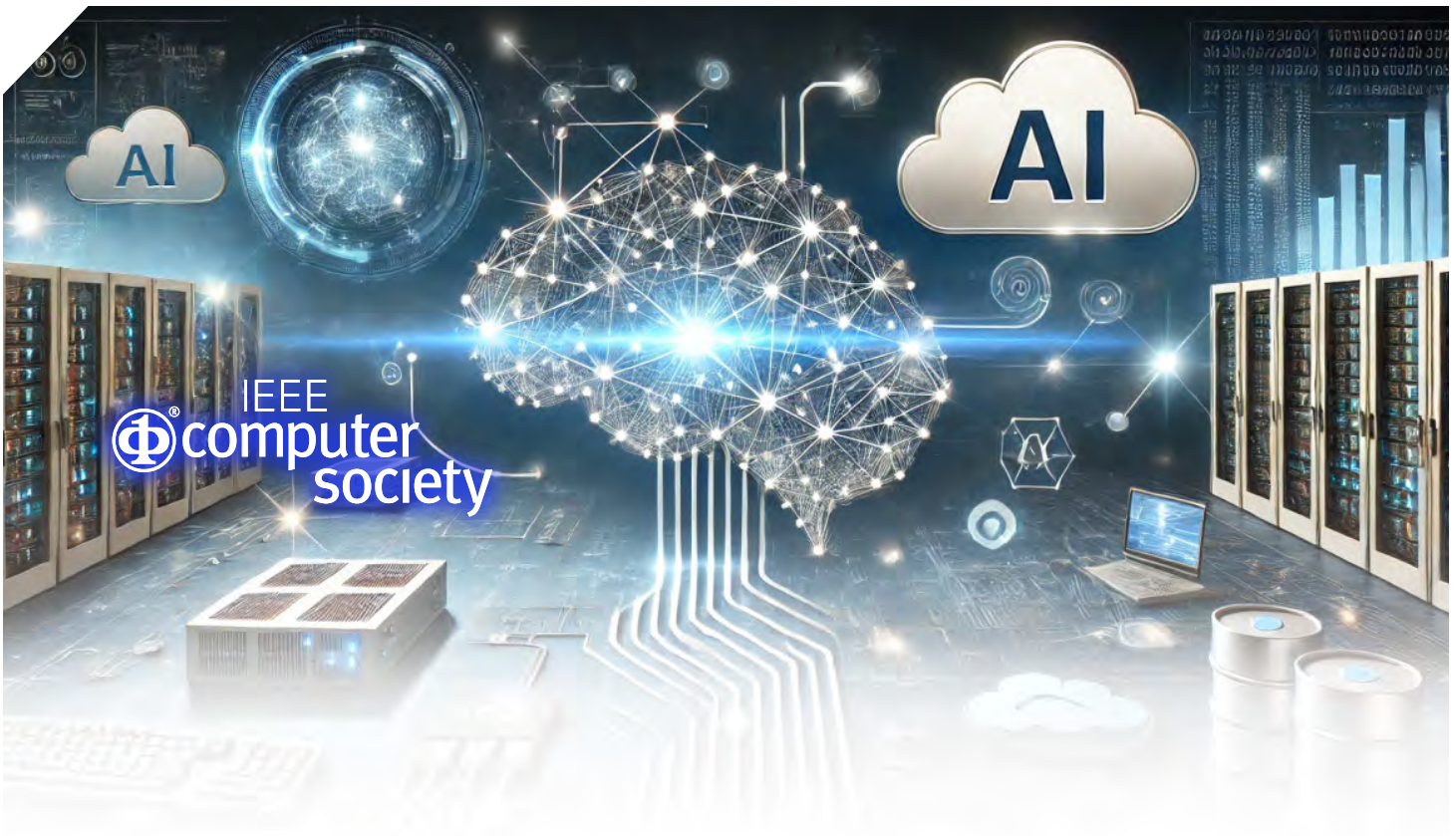
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LONG ISLAND SECTION

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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AN IN-DEPTH OVERVIEW IEEE LONG ISLAND SYMPOSIUM: AI IN CLOUD COMPUTING

TIRUMALA RAO CHIMPIRI,

Conference Chair and Chair, IEEE LI Section Computer Society

Held virtually on Aug. 21, 2025, the **IEEE Long Island Symposium on AI in Cloud Computing** brought together professionals, researchers and technologists to examine Artificial Intelligence applications in enterprise and public-sector cloud systems. The program included four invited talks on ethical governance, cybersecurity, hybrid cloud automation and ERP-driven HR transformation. The symposium was organized and chaired by Tirumala Rao Chimpiri, chair of the IEEE Computer Society-Long Island Section, who coordinated the program. Mr. Chimpiri set evaluation criteria, reviewed proposals, selected speakers and moderated sessions on the chosen themes.

CONTINUED ON PAGE 6 ►

KEY SESSIONS AND INSIGHTS

The event showed how AI adoption connects across multiple domains:

ETHICAL GOVERNANCE IN CLOUD AI

Vaishnavi Gudur, Microsoft

Gudur stressed the need for fairness, transparency, privacy and accountability, drawing on frameworks like NIST AI RMF and ISO/IEC 42001 to ensure AI systems remain trustworthy and sustainable.

AI-POWERED CYBERSECURITY FOR SMES

Sumeet Jeswani, Google

Jeswani presented a federated learning approach that allows small and mid-sized enterprises to benefit from enterprise-grade defenses while protecting data privacy.

SCALABLE AI AUTOMATION IN HYBRID CLOUD

Saichand Raghupatrini, AI Engineering Manager

Raghupatrin discussed a layered architecture for hybrid cloud AI, demonstrating how organizations can scale from pilot projects to enterprise-wide automation.

AI IN ERP AND HR SHARED SERVICES

Ramprasad Reddy Mittana, Associate Director, HR Information Systems

Mittana showcased how AI-powered agents and ERP integration can streamline HR operations, citing examples of cost savings and improved workforce engagement.

SPEAKER TAKEAWAYS

Each speaker captured the essence of their talk with a key message:

“Ethical frameworks are not barriers to innovation, but enablers of sustainable trust.”

Vaishnavi Gudur

“Automation in hybrid cloud is about agility—AI enables enterprises to adapt quickly.”

Sumeet Jeswani

“AI-powered security must be accessible to all, not just large enterprises.”

Saichand Raghupatrin

“ERP and HR automation bring the human side of AI into focus, improving workforce experiences.”

Ramprasad Reddy Mittana

ACKNOWLEDGEMENTS

We gratefully acknowledge the contributions of:

Rhonda Green, chair, IEEE Long Island Section, for her opening remarks and leadership.

Barbara Porter, vice chair, IEEE Computer Society LI Section, for her ongoing commitment to IEEE Long Island initiatives.

All invited speakers, whose expertise and insights shaped the quality of the program.

The attendees, whose active participation in Q&A and discussions added depth and made the symposium a success.

CONCLUSION

The four sessions outlined approaches for responsible AI adoption. These sessions connected governance, security, automation and ERP transformation from multiple perspectives, for the benefit of enterprises, academia and government. The symposium enabled sharing of ideas, documented session outcomes and supported ongoing AI-Cloud collaboration through the IEEE Computer Society-Long Island Section.



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

Early Registration Deadline	October 3, 2025
Forum Commencement	November 6, 2025
Career Fair	November 7, 2025
Forum Conclusion	November 8, 2025

OUR VISION

The IEEE Women in Engineering (WIE) ForumUSA East is dedicated to fostering leadership development for professionals at every career stage.

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**THURSDAY,
NOVEMBER 6, 2025**
NOON TO 8 PM



RADISSON HOTEL, 110 MOTOR PKWY, HAUPPAUGE LI

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 2025

A free invitation is extended to all engineers, managers, other professionals and students involved in the use, design, qualification, testing or manufacturing 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 2025

Limited exhibitor space is available to LI companies and reps that cover Long Island involved in the design, qualification, testing or manufacturing 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 2025

A sponsorship entitles you to one free table with preferential placement. In addition, your company logo is prominently placed on the 200 swag bags, the symposium flyer and all event posters. Sponsors 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 \$1,000.

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



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OCTOBER 7, 2025



Join us in celebrating!
IEEE Day commemorates the first time IEEE members
gathered to share their technical ideas in 1884.



A YOUNG PROFESSIONAL SUMMIT REPORT:

AUGUST 22 -24



IEEE

youngprofessionals

SUMMIT 2025

TOWARDS SUSTAINABLE ARTIFICIAL INTELLIGENCE

BY IEEE YOUNG PROFESSIONALS OF LONG ISLAND MEMBERS:

Alexander Impastato, Robert DeMarzo, and Joana Sroka

SUMMIT SYNOPSIS

This Summit report captures the full arc of a single day Saturday at the IEEE Young Professionals Summit 2025 in New York City. The program moved quickly from a candid, personality teamwork workshop (DiSC) into a policy and practice conversation with Sustainable Energy for All (SEforALL) on how artificial intelligence can accelerate clean energy access without losing sight of equity and implementation constraints. The afternoon blended rooftop networking, a leadership panel spanning four Sections and two countries, and a one slide pitch competition that demanded a crisp synthesis of problem, user, system flow, and value. As an I/D (Influence + Dominance) profile, Alexander Impastato worked in a team of similar styles to pressure test communication and decision making under time limits; later, he asked targeted questions during the SEforALL session and continued the dialogue with the speaker. Those conversations, plus an informal exchange over lunch about his work as a signal field engineer serving the Metropolitan Transportation Authority, led to concrete outcomes: invitations from the IEEE Cleveland and Pittsburgh Sections to host my Communications Based Train Control (CBTC) talk and a cross Section collaboration on an AI enabled pothole detection concept for municipal maintenance. The day illustrates how Young Professional spaces convert curiosity into action.

PROFESSIONAL RELEVANCE

The Young Professional Summit maps out opportunities that matter for early career engineers: style aware teaming improves collaboration and delegation; well framed Q&A opens doors to technical partnerships; and constrained storytelling (oneslide) forces rigor around users, data, and delivery. The result was not just new contacts but immediate opportunities two formal speaking invitations and a realistic smart city concept with a plausible path to pilot.

INTRODUCTION

Young Professionals often straddle two worlds: we are fluent in the tools and tempo of modern engineering, yet we are still assembling the networks, context and leadership instincts that turn those tools into impact. The 2025 IEEE YP Summit, set in Midtown Manhattan and organized around the theme "Towards Sustainable AI", offered a curated environment to close that gap. The sessions were compact and deliberately mixed: a morning of self-awareness and communication, a midday discussion that used real energy access challenges to ground the AI conversation, and an evening competition that demanded clarity and courage. This report, written for the Pulse of the IEEE Long Island Community, focuses on how four participants, Robert DeMarzo, Alexander Impastato, Joanna Sroka and Brian Tacuri navigated the Saturday track and discovered what tangible outcomes emerges for the IEEE Long Island Section.

CONTINUED ON PAGE 11 ►

ATTENDEE EXPERIENCES

Alexander attended as a member of the IEEE Long Island Section, representing our community alongside three colleagues. Professionally, he served as a signal field engineer supporting capital and maintenance work for the Metropolitan Transportation Authority. That vantage point hands on with safety critical systems, deadlines, and stakeholders shaped how I evaluated each session: what practices scale beyond the room, what partnerships translate to the rail and roadways we all use, and how IEEE can remain a bridge between research, operations, and the public.

Rob attended as the Second Vice Chair of the IEEE Long Island Section; as a Young Professional that shares the experiences of traveling into the City from Long Island and joining other professionals from all around the world to collaborate in person for the first YP Summit that encompasses the Region 1 and Region 2 groups of Regional Sections other known as R1+R2 at the time of writing. Rob works in the field of Information Security and IT Support roles for a VAR 500 MSP that caters to Education, Medical, Financial, and Innovation Industries. The Speakers Presentation Sessions had a direct affect on the thought that goes into the research that allow for my role to permit success where it matters, in the developing world, writing standards, and inventing. I found that I relate with the folks that I met due to how we were attending for the same purpose, to create innovation through increased advanced collaboration.

The event took place over three days and featured activities that Young Professionals would be interested in working on and attracted to for the pure fascination of technology and its implementation. Many of the people that met were literally Young Professionals like me and the Summit Took Place on August 23, 2025. The first day included event introductions where IEEE region and section chairs reviewed recent news, current statistics, and future goals. The catered event took place in New York City and I took the LIRR train into Grand Central Madison Station and the Subway to attend. I learned about the Young Professionals Amplified Event that occurred in Cleveland, Ohio. The inevitable IEEE Discord Channel had been covered with an IRL Mods Review. I learned about our new total number of members and where in the world humanitarian work allows for families in developing countries to receive innovations that cater to their unique needs.

I enjoyed hearing the prepared presentations that the speakers delivered that showcased that its truly feasible to participate amongst various forms of leaders in Humanitarian, Supply Chain, Education, Commercial, and Industrial verticals because it prompted me to think about the various sorts of projects that I would be interested in to work on next and the

Some projects that I liked were the Advancing STEM Education with HeliosRover that featured a project that allowed engineering students to learn about various forms of current technologies like AI and solar all while being active in their respective communities.

I learned about CVD which stands for Congressional Visits Day and how 330 trained IEEE members had participated from 39 states to meet in Washington D.C. so far in Spring for IEEE USA Congressional Outreach Program and the IEEE-USA Fellowships that provides opportunities for technologists to contribute to federal policy making while working at advisors to the U.S. congress.

I found out that AI Native Platforms could allow AI Agents to break Manual ETL Processing into a Streaming Service that Features Automated Governing Compliance. I also found out that Acciona Energia works on energy development and had a Off-Shore Powership and an Off-Shore Gas Plant in 2006 and 2017 respectively, that ultimately developed into the need for renewable energy due to emissions.

I wondered about the future might hold while hearing Alberto Tam Yong present about the new innovative AG Catalyst, a Data-Driven Framework for Evaluating Young Professionals AG Dormancy. This will allow for automatic growth earlier this year. I learned about the ICOP which stands and systematic advancements with in each respective Branch, Society, and Region of the IEEE. Teams of about five worked on group projects and presented their findings and were ultimately challenged with delivering a one minute pitch competition that judges would then vote on to find a winner.

DISCUSSION

Looking across the day, three lessons stood out to Alexander from the Young Professional summit. First, self-awareness. The DiSC exercise seems simple on the surface, but putting people with shared tendencies into a problem with time pressure makes the tradeoffs vivid: speed creates momentum; unchecked, it creates blind spots. That shared language helped my team move faster in the pitch because we had already negotiated how to make decisions together. Second, specificity. The best questions are narrow enough to be answerable and open enough to invite collaboration. The SEforALL exchange worked because it started with verification and ended with stewardship not AI for everything, but AI when the ground truth is clear and the users are in the loop. Third, constraint. A one slide limit is a gift. It forces a team to choose: who is the user, what changes for them, what data earns trust, and who pays. Those choices turned a raw idea into something a public works director could reasonably react to on

CONTINUED ON PAGE 12 ►

SUMMIT HIGHLIGHTS

DiSC Workshop: Workplace styles

The day opened with an interactive DiSC exercise. Alexander Impastato's profile registered as I/D (Influential and Dominant mix). He teamed up with participants who shared the same blended result. The facilitators of the workshop posed scenario prompts that explained habits of each personality trait, stated what others liked and disliked about other roles, and dove into solutions for the flaws of a role. The I/D mix showcased its strengths: we engage with tasks quickly, keep positive energy in the workplace and maintained confident energy levels in all decision-making situations. However, it came with its weaknesses. The I/D mix tends to be impulsive by making problem-solving decisions with imperfect information. Walking out, Alexander obtained a sharper sense of his strengths and weaknesses in the workplace along with solutions to minimize his weaknesses.

SEforALL Session: Clean Energy + AI

SEforALL's talk utilized concrete casework to demonstrate how Artificial Intelligence can support the clean-energy transition without abstracting away from human involvement. Examples in their presentation include data gaps, geospatial equity, and the operational reality of utilities that must be power reliable while modernizing to clean energy sources. Alexander Impastato asked targeted questions on how to validate model outputs with clean energy using AI and collaboration possibilities between SEforALL and the IEEE organizations. The conversation transitioned into a discussion about data stewardship and community involvement. The insight revealed that the AI helps most when it augments local expertise and shortens the distance between detection and response.

Rooftop Lunch and Peer Exchange

The rooftop lunch session proved to be more than just a lunch break. It was a networking session with a plain view of the financial district of Manhattan. Alexander Impastato shared highlights from his experience as a Signal Field Engineer for L.K. Comstock, a contractor associated with the Metropolitan Transportation Authority of New York City. He also walked through a CBTC presentation overview he had presented to the IEEE Long Island Consultants Network. This story resonated with attendees who were curious about the standards, testing and design considerations of CBTC. This experience had granted him two opportunities to present CBTC for both the Cleveland Ohio and Pittsburgh Pennsylvania IEEE sections. This experience had taught Alexander that people will make room for you on their agenda if you can explain a complex system that respects This experience had granted him two opportunities to present CBTC for both the Cleveland Ohio and Pittsburgh Pennsylvania IEEE sections. This experience had taught Alexander that people will make room for you on their agenda if you can explain a complex

Leadership Panel Presentation

The afternoon Leadership Panel Presentation gathered IEEE Young Professional Chairs from Cleveland, Germany, New York, Pittsburgh and New Jersey. Their individual careers varied in industry, academia and public sections. However, their message remained the same. Raise your hand, then raise someone else's; bring a proposal, and learn the budget and bylaws so your idea can survive the obstacles reality provides. They also provided opportunities for IEEE members to get involved with their associated sections for future collaboration activities.

Pitch Competition: One slide, \$500

The evening competition compressed innovative ideas for AI that solve modern-day problems into a single slide. Alexander Impastato teamed up with two Young Professionals from Cleveland and Washington DC to design a concept for an AI-enabled pothole detection and dispatch system. The flowchart they created accurately describes the system's functionality. A driver reports a pothole presence via familiar map applications, like Waze and Apple Maps. The app captures approximate coordinates, a lightweight model validates the report and its severity, an overlay pins the location for public virtual visibility on the app, and a service ticket is generated for the responding authorities. The team's flowchart made the handoffs explicit (citizen->model->dashboard->dispatch) and included cost considerations. The core idea was to shorten the feedback loop of real-world problems from observation to repair.

Long Island Section Representation

Throughout the day, Alexander Impastato represented both an attendee and a Long Island Representative. He along with other representatives from Long Island learned multidisciplinary skills from one another and plan to keep in contact to use what they learned to further expand their networking horizons.

CONCLUSION

The Saturday program at the IEEE YP Summit delivered the mix that early career engineers crave: community, candor, and challenge. I left with two speaking invitations, a collaborative project concept, and a network of peers who value both rigor and service. More importantly, I left with a playbook start with self-awareness, ask better questions, and ship a story people can test. The Long Island Section can use this pattern to turn professional development into public benefit, one well-scoped project at a time.

REFERENCES

1. IEEE YP Summit 2025 Program (Saturday Schedule), Jay Conference Empire, New York, NY.
2. Personal session notes and materials, Aug. 23, 2025.
3. SEforALL public resources on sustainable energy and AI (session citations as presented).

IEEE MEMBERSHIP and MEMBER BENEFITS

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- Get the resources and opportunities you need to keep on top of changes in technology
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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.

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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

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