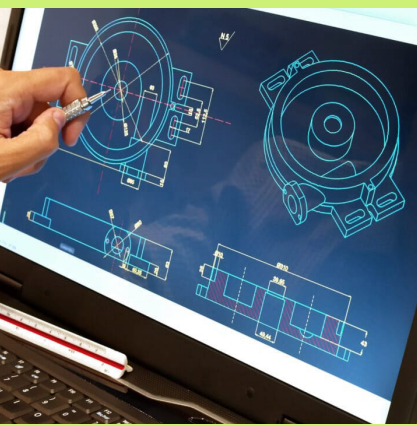


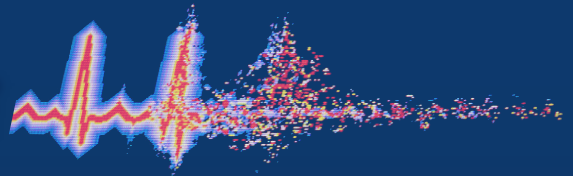


THE PULSE

OF LONG ISLAND



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Happy Spring Long Island Section Leaders. It is indeed a Happy Spring! On March 21st we delivered a stellar **IEEE Long Island Section Awards**

Banquet that continues to be praised by the attendees, supporters, vendors and service providers. Congratulations to all of the honorees and award recipients for your contributions.

A heartfelt thank you to our keynote speaker, Professor Chad Bouton, whose captivating speech about *“Revolutionizing Medicine with Brain Interfaces and AI”* was the highlight of the night.

Finally, thank you to all of

the volunteers who helped to make it a grand success.

A special pictorial edition of *The Pulse of Long Island* will be published and distributed next month, so please stay tuned.

Warm Regards,

Rhonda Green
2024 IEEE Long Island Section Chair
chair@ieee.li

CHAD BOUTON
Chair, Director of Medical Devices, Northeast, Texas

Revolutionizing Medicine with Brain Interfaces and AI

CHAD BOUTON is a Professor and the President of Advanced Engineering at the Feinstein Institutes for Medical Research at Northwell Health in New York. He is also the Director of the Howard Hughes and Brain-Computer Interface Laboratory. For the last 25 years, Prof. Bouton has pioneered technologies to diagnose and treat cancer, diabetes, organ failure, heart failure, limb injury, and paralysis.

He announced the world's first "usable neural input" which combines the brain implants, AI, and spinal cord stimulation to restore lasting movement and sensation in amputees.

His work has been covered by 400+ outlets, TIME Magazine, National Geographic, Wired Magazine, CNN, Bloomberg, The BBC, NPR, NPR, and many international media outlets.

Professor Bouton has also been recognized by US Congress, named Innovator of the Year by Business, and in 2011 was selected by the National Academy of Engineering as one of the top 100 young engineering innovators in the world.

In 2014, Bouton and his team demonstrated the world's first artificial neural bypass which used brain implant technology to enable a paralyzed man to move his hand again - first by thinking about it. In 2023, Bouton and his team

Professor Bouton holds over 10 patents, has helped found multiple companies including Neuroton, Inc. most recently, and his ground-breaking technologies have been awarded three R&D 100 Awards ("The Oscars of Invention").



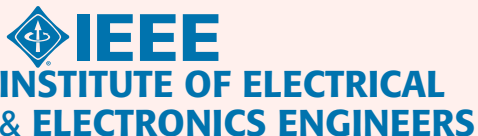
The Pulse of Long Island is produced by the Long Island Section of the **Institute of Electrical & Electronics Engineers**.

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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 **CONSULTANT'S NETWORK OF LONG ISLAND**

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

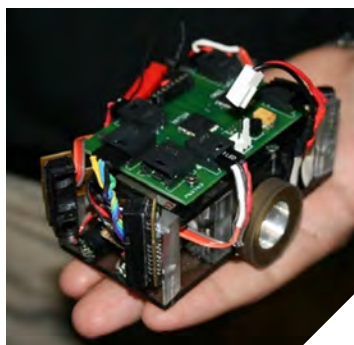
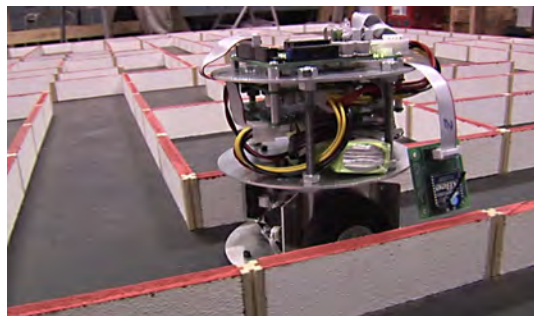
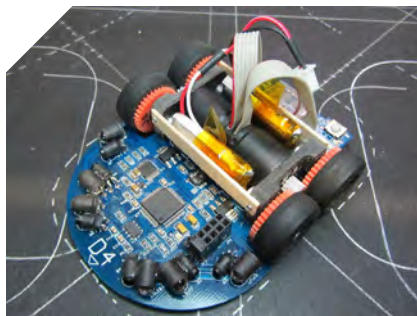
membership@ieee.li **MEMBERSHIP DEVELOPMENT**

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

THE IEEE LI 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 LI CHAPTER'S STEERING GROUPS, PLEASE DO CONTACT THE RELEVANT CHAPTER CHAIR, VICE CHAIR, OR ONE OF THE SECTION OFFICERS.

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The IEEE Robotics and Automation Society
of Long Island is sponsoring:
**The 2nd ANNUAL MICROMOUSE
COMPETITION of LONG ISLAND**



WHEN:
May 10, 2024

WHERE:
NYIT, Anna Rubin Hall
Room Aarh- 310/12
Old Westbury, N.Y.

TIME:
11:00 AM - Set-up
1:00 PM - Competition

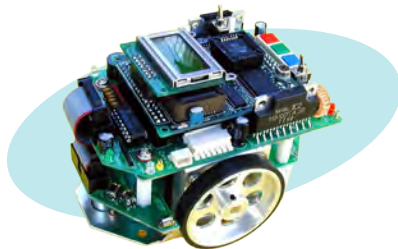
FEE:
There is no entry fee for
this event. Professional and
college entries must be
IEEE members.

In addition to the traditional **Micromouse Competition**, in which a palm sized autonomous robot navigates a maze to a designated destination, a second robotics competition is scheduled: **"Corsa Libirinto"**. "Corsa" is a labyrinth race which can be entered with the same or a different micromouse autonomous racebot. In this race, a pit crew can service the racebot during the race.

In addition, a new professionals division has been established for college graduates and graduate students.

**MICROMOUSE
2024 DIVISIONS:**

- Professionals
- College
- High school



All IEEE Student Members and Members are eligible to participate. High School Students (non-IEEE Member) will attend a 30-minute Introduction Session about IEEE and how IEEE can help them when they are Undergraduate Students at a college.

All competitor teams give presentations of their robots prior to the competition, vying for the "best presentation" prize and then compete in the micromouse competition and the labyrinth race for 1st, 2nd, and 3rd place in each.

For a copy of the competition guidelines/rules and registration information, e-mail event coordinator, Dr. Andrew R. Sass at: arshacker@aol.com

REGISTRATION:

To participate in the Competition, please register by filling out registration form below by clicking on this link:
<https://forms.gle/3Hnj3RTrb9A1Nnfo9>

If you have questions, please email Dr. Andrew R. Sass, Vice Chair, IEEE RAS of Long Island at: arshacker@aol.com





FRIDAY, MAY 10, 2024



LISAT 2024

18th ANNUAL IEEE LONG ISLAND SYSTEMS, APPLICATIONS, AND TECHNOLOGY CONFERENCE

ZEBRA TECHNOLOGIES, HOLTSVILLE

7:30 AM – 5:00 PM

THREE ALL-DAY PARALLEL TECHNICAL TRACKS

SYSTEM | APPLICATIONS | TECHNOLOGY

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> • Computer Networks • Wireless Sensors • Quantum Computing • Signal & Image Processing | <ul style="list-style-type: none"> • Cybersecurity • Renewable Energy • Micropower Sensor Networks | <ul style="list-style-type: none"> • Advanced Surveillance • Nanomaterials • Next Generation Health Care |
|---|---|---|

IEEE DISTINGUISHED LECTURE and INVITED PRESENTATION

IEEE Distinguished Lecturers (DLs) are recognized experts in their field. LISAT will in invite DLs to present on the state-of-the-art technological research and developments. In addition, a couple of experts in various fields will be invited.

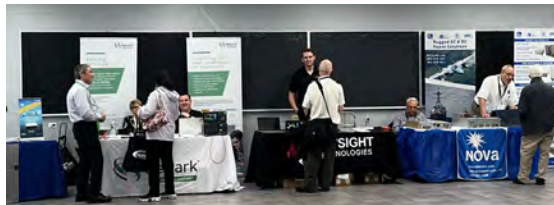
EXHIBITS HALL

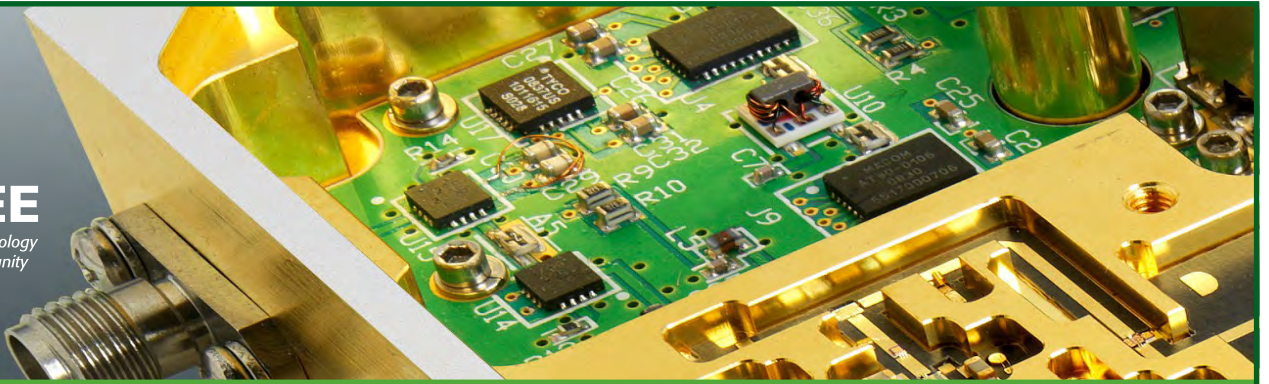
Exhibits from Local OEMs, Manufacturers, Component Suppliers, Universities, Competition Winners, Local Associations and Professional Societies

VISIT:

www.ieee.li/lisat

For Paper Submission, Registration, Program Schedule, Accommodation, Transportation, and other Information





THURSDAY, MAY 16, 2024

2024 MICROWAVE/RF/ WIRELESS SYMPOSIUM & EXHIBITS

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

RADISSON HOTEL, 110 VANDERBILT MOTOR PKWY, HAUPPAUGE

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

LECTURE, LUNCH AND DINNER PROGRAM SCHEDULE:

10:00 AM – 12:00 PM	WORKSHOP #1: Topic to Be Announced	WORKSHOP SESSIONS
1:30 PM – 4:30 PM	WORKSHOP #2: Topic to Be Announced	
12:00 PM - 1:00 PM	NETWORKING LUNCH (Complimentary)	
1:00 PM - 7:00 PM	EXHIBITS	
1:00 PM - 1:45 PM	LECTURE #1: Topic to Be Announced	TECHNICAL SESSIONS
2:00 PM – 2:45 PM	LECTURE #2: Topic to Be Announced	
3:00 PM – 3:45 PM	LECTURE #3: Topic to Be Announced	
4:00 PM – 4:45 PM	LECTURE #4: Topic to Be Announced	
5:00 PM – 5:45 PM	WELCOME and KEYNOTE ADDRESS: Ethical & Social Issues of Artificial Intelligence Prof. Ali G. Hassami, Chair & Technical Editor IEEE 7000 Technology Ethics Satandard/Director VEGA Systems	
6:00 PM - 6:30 PM	ACKNOWLEDGMENTS and CLOSING REMARKS	
6:30 - 8:00 PM	NETWORKING DINNER (Complimentary) with Cash Bar	



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

The **Seventh Annual Long Island RF/Microwave Symposium and Exhibits: New Trends** is the area's premier event that brings together the Microwave, Millimeter Wave & RF community. This event is **free for attendees but you must register in advance**. 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.

REGISTRATION FOR SPONSORS, EXHIBITORS, and ATTENDEES:

www.ieee.li/microwave/

**THURSDAY,
NOVEMBER 7, 2024**
NOON TO 8 PM



RADISSON HOTEL, 110 MOTOR PKWY, HAUPPAUGE LI

IEEE LI SECTION **POWER ELECTRONICS SYMPOSIUM 2024**

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.

CALL FOR PAPERS

Abstract, viewgraphs, speaker bios and speaker contact information are due **October 4, 2024**. Scheduling of qualified papers is accomplished on a first-come/first-served basis. Notification of acceptance by **October 16, 2024**.



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 \$450



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



OWN
YOUR
POWER
SKILLS

NOVEMBER 7-9, 2024 | MARRIOTT HOTEL & SPA | STAMFORD, CT.

IEEE WIE Forum USA East focuses on developing and improving leadership skills for individuals at all stages of their careers. Attendees will have the opportunity to hear inspirational and empowering talks presented by successful leaders from IEEE Northeast. Emerging technologies will also be demonstrated, engaging attendees to facilitate discussion and potential advancement of STEM outreach class ideas.

INSPIRE

Motivate positive progress in career and life

EMPOWER

Discover your true potential

LEAD

Advance leadership and career management

CAREER FAIRS

Meet with growing organizations

WORKSHOPS

Develop new skills or improve skills

[HTTPS://ATTEND.IEEE.ORG/WIE-FORUM-USA-EAST-2024/](https://attend.ieee.org/wie-forum-usa-east-2024/)

KEY DATES	DEADLINES
General Registration Opens	July 7, 2024
Abstract Submission Deadline	July 14, 2024
Speaker Notice of Acceptance	September 8, 2024
Early Registration Deadline	October 6, 2024
Forum Commencement	November 7, 2024
Career Fair	November 8, 2024
Forum Conclusion	November 9, 2024

SPONSOR



REGISTER



PARTICIPATE





at the MIT IEEE MICROMOUSE COMPETITION

BY RACHEL LEONG, KYLE HAN,
AND CHRISTOPHER LOBATO

OCTOBER 2023



Group photo of everyone attending the MIT Micromouse event
(from left to right - Aritro Sarkar, Kyle Han, Brian Fong, Daniel Kapriyelov, Thomas Montchal, Johnny Liu, Ilan Messing, Kanad Telang, Rachel Leong, Christopher Lobato, Summer Wang, Anna Li, and Jaima Choudhury)

When the IEEE Stony Brook University Student Branch attended the IEEE Micromouse Competition at MIT last year, we were inspired to design our own mini maze-solving robot. After months of developing our first Micromouse, we won first place at the NYIT Micromouse Competition in May 2023. Since then, we've been refining our design in hopes of reaching that 2x2-celled goal.

“We finished in second place and performed way better than I ever imagined when I began working on the mouse.”

ILAN MESSING

invitation from vTools to compete at the IEEE MIT Micromouse Competition.

We eagerly awaited our next opportunity to compete, this time aiming to bring more students, teams, and Micromice. That opportunity arrived via an email from Gim Soon Wan, extending an

The event was scheduled for October 7, leaving us just two weeks to plan our trip from Stony Brook University to MIT. By promoting Micro-mouse and IEEE-related activities through our OPS Workshop Series, we assembled three teams of students for the competition at MIT. The first team, WolfRatAlpha, included Kyle Han, Rachel Leong, Christopher Lobato, and

“... it was challenging solving problems I didn't expect to encounter while building the mouse.”

BRIAN FONG

Thomas Montchal. The second team, WolfRatSigma, comprised Daniel Kapriyelov, Johnny Liu, and Ilan Messing. The third team, "The Official IEEE at SBU Micromouse," featured Brian Fong and Kanad Telang. Additionally, we planned to bring spectators to support the teams and learn about Micromouse, totaling 14 attendees.



Team WofRatAlpha begins their run as onlookers eagerly await the finish.

CONTINUED ON PAGE 11 ▶



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Organizing an overnight trip for fourteen people from Stony Brook, NY, to Cambridge, MA, presented several logistical challenges beyond the technical difficulties of creating a Micromouse.

The estimated cost for the trip significantly exceeded our budget.

“... being in the midst of such a competitive environment gave me a deeper understanding of the intensity and excitement of the competition... it was an remarkable and unforgettable experience.”

JAIMA CHOUDHURY

Over two weeks, the IEEE at SBU executive board tirelessly prepared grant applications, as well as housing and transportation plans, to ensure everyone could attend. After presentations to IEEE Long Island Section, the Stony Brook University Under-graduate Student Government, and potential company sponsors, we secured over \$3000 in additional funding, covering registration fees, transportation, housing, and some meals. We booked hotel rooms the night before the event, right after our grant was approved.

Upon arriving at MIT's Stata Center after a long drive through rain, fog, and city traffic, we were among the first students to enter the competition venue.



Members of WolfRatAlpha and “The Official IEEE at SBU Micromouse” work together to debug their code

(from left to right - Christopher Lobato, Thomas Montchal, Kanad Telang, and Brian Fong)



Johnny Liu and Jaima Choudhury placing walls according to the maze map

Four awards—a golden 1st, a silver 2nd and 3rd, and a cerulean Best Design—stood on a table in the center. As volunteers prepared the competition maze, our students helped assemble it, setting up a challenging environment for the Micromice.

As the maze took shape, our teams fine-tuned their robots, each facing unique challenges. WolfRat Sigma worked on overcoming phantom walls. WolfRat Alpha focused on implementing a reliable algorithm without causing a "segmentation fault," and "The Official IEEE at Stony Brook University Micromouse" team struggled with wall detection.

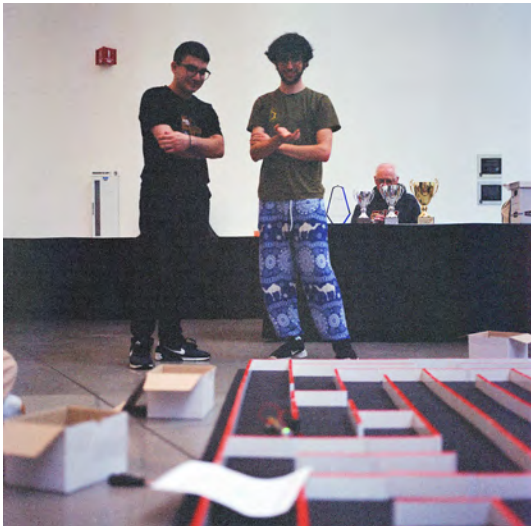
“As I watched the teams racing their mice through the intricate maze, the sheer excitement in the air was palpable.”

KYLE HAN

Other universities joined, adding to the competitive atmosphere.

▶ CONTINUED ON PAGE 12

◀ CONTINUED FROM PAGE 11



Ilan Messing and Daniel Kapriyelov watch as their mouse navigates its way around the unfinished maze

Dr. Andrew Sass inaugurated the event with presentations from each team, detailing their design and testing processes. The presentations allowed spectators to gain insights into the diverse approaches to the challenge.

“Returning to MIT as a competitor rather than a spectator... made the experience much more rewarding and exciting.”

RACHEL LEONG

When all the races ended, the team members from competing schools began dismantling the maze as Dr. Sass and Soon prepared to announce the winners. Dr. Sass gave final remarks acknowledging the hard work of each team and encouraged them to continue to improve their Micromice.

The competition was intense, with each team's effort drawing attention and reactions from the audience. Despite the challenges, our teams performed admirably. Rutgers secured the 1st and 3rd places, WolfRatSigma took 2nd, and WolfRatAlpha was awarded Best Design. The event concluded with a photo session for the winners, celebrating the achievements of both Rutgers and SBU.

The day ended with takeout pizza and a short drive to the Sheraton Framingham Hotel for some well-deserved rest. We are grateful to Dr. Sass, Soon, the judges, and MIT for hosting the event, and to IEEE LI for their financial support. Congratulations to Rutgers and thank you to all the teams for a competitive event. We are excited to compete again next year!



Summer Wang and Anna Li working to build the micromouse maze.



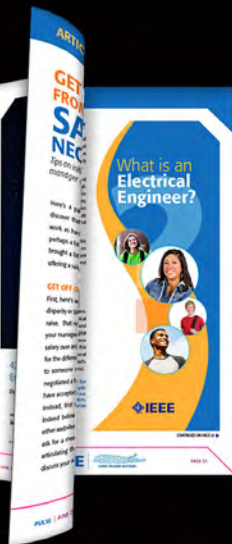
Group photo of the winning micromice

WolfRatAlpha and WolfRatSigma (from left to right - Thomas Montchal, Johnny Liu, Christopher Lobato, Ilan Messing, Rachel Leong, Kyle Han, and Daniel Kapriyelov)

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



THE PULSE

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



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IEEE.tv

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

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- 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.

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- Learn more about individual benefits
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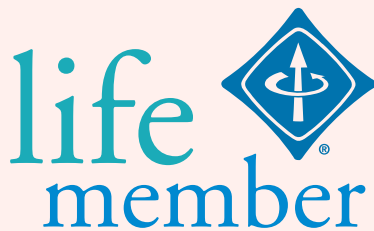
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The **IEEE Long Island Section** has held meetings with many of our Life Members and Senior Engineers, in recent months. Your stories and histories in engineering are interesting, inspiring and should be recorded for future generations. You have served 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.

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