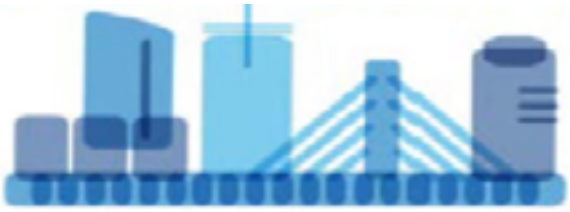

Boston Section

Supporting students, working engineers and retirees through professional development, education and resources.

THE Reflector

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Getting Onboarded: My First Step into the Young Professionals Community in IEEE

Qingwan (Cecelia) Cheng

I recently took on the role of Vice Chair for the IEEE Boston Section Young Professionals (YP) Affinity Group, where I support and initiate new events for local YPs. My onboarding has been both welcoming and inspiring - ranging from meeting the supportive Boston Section leadership, to attending the 2025 IEEE Young Professionals Summit in New York City, to volunteering at the Boston Section Women in Engineering Senior Member Evaluation Breakfast.

From August 22–24, I had the honor of attending the 2025 IEEE Young Professionals Summit in New York City. It was a wonderful opportunity to connect with fellow YPs from Regions 1 and 2, exchange ideas about event planning, and gain valuable professional insights. At the Gala, I was particularly inspired by YP Region 1&2 Leader Sam Stone, who encouraged us to design YP events around our passions. His own focus on sustainability and AI shaped the summit's theme, "Towards Sustainable Artificial Intelligence." This advice resonated with me as a new YP lead: meaningful events begin with what excites us most.

Alongside the inspiring messages, I also gained practical tools for growth. One highlight was taking the DiSC assessment for the first time, which offered valuable insight into my work style and how to collaborate with people who approach challenges differently. During the interactive workshop, we gathered in our D/I/S/C groups to share strengths and struggles, bringing each personality type vividly to life. I look forward to recommending this assessment in the future as a tool to strengthen teamwork both in the workplace and within our YP community.

The summit also reinforced how vital the IEEE community is. Everyone I met volunteered their time to give back, keeping the organization vibrant and supportive. For young professionals, especially recent graduates, IEEE provides not only technical knowledge and professional development, but also a network of peers with shared interests. This sense of community helps ensure that no one feels like they are navigating early career challenges alone.

I left New York with fresh technical insights as well. I learned about the development phases and challenges of autonomous vehicles, strategies for navigating careers in AI, methods to address AI hallucinations, and ongoing efforts to build more sustainable AI architectures. Another highlight was the team challenge, where we pitched human-centered technologies to solve social problems. My team focused on textile waste, proposing an AI-powered system that uses computer vision to detect fabric waste on conveyor belts at local collection sites. Collaborating with teammates from diverse backgrounds was eye-opening, and together we designed a sustainable closed-loop process that could help companies reduce waste over time.

Participants in the 2025 IEEE YP Summit

Back in Boston, I had the privilege of volunteering as a check-in coordinator for the Women in Engineering Senior Member Evaluation Breakfast. It was a rewarding experience to meet senior members, learn about the requirements for elevation, hear from peers about overcoming career challenges, and connect with students and YPs about the types of events they'd like to see. The event proved to be a rich space for learning, networking, and collaboration.

As I continue onboarding, I am excited to bring fresh ideas to our YP programming. I envision hosting social gatherings where members can connect and build friendships; mentorship circles that bring together students, YPs, and senior members to exchange experiences and advice; and even technology-themed movie nights where networking can spark naturally over conversation. This is just the beginning - more ideas are on the way, and I look forward to shaping them with all of you.

Qingwan (Cecelia Cheng) graduated from Boston College in 2023 with a B.A. in Applied Psychology and Computer Science, along with a minor in Cyberstrategy and Design. She was honored to receive the General Excellence Award for her academic and community contributions. She is currently working as a Data Analyst at Dell Technologies, where she specializes in automating reporting and transforming data into meaningful insights using tools like Power BI and Jira. She also supported agile engineering teams by optimizing sprint tracking, visualizing ticket flows, and streamlining administrative workflows. Outside of her analyst role, she takes leadership roles in Employee Resource Groups, organizing cultural events and hosting sessions to support colleagues navigating the path to graduate school. She's passionate about creating spaces for growth, inclusion, and shared learning - both in and beyond the workplace.

After work, Cecelia serves as the Assistant Director at Aftermath Learning Lab, where she leads a team of undergraduate researchers in writing academic papers, applying for grants, and organizing conferences. She also designs and facilitates workshops that integrate design thinking and generative models with educational game development to promote sustainability and systems thinking.

Cecelia recently joined IEEE Boston Section as the Vice Chair of Young Professionals Affinity Group. She is onboarding and planning events that bring Boston Young Professionals together to network, find their community, receive mentorship, and improve skills.

In session at the 2025 YP Summit

IEEE youngprofessionals

IEEE

Advancing Technology for Humanity

IEEE International Conference on AI & Data Analytics (ICAD 2026)

June 9–10, 2026 | Boston, MA

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Business Analytics, FinTech, Supply Chain

Explainable & Responsible AI, Ethics & Governance

AI in Healthcare, Cybersecurity & Sustainability

Details at ieee-icad.org

IEEE Boston Reliability Chapter – 5:00 PM, Wednesday, October 8

Application Case History of Real-World Customer Examples on how Loctite Products Help Solve Manufacturing Challenges

Time: 5:00 PM, Wednesday, October 8

Location: 900 Middlesex Turnpike, Billerica, Massachusetts - Building: TBD - see signage at site

Event Registration Information: https://events.vtools.ieee.org/m/501094.

Please join the Boston IEEE Reliability Chapter at ASMPT/NEXX in Billerica for the following Technical Presentation on Wednesday October 8, 2025!

There will be multiple speakers presenting Application Case History of real-world customer examples on how Loctite adhesives, sealants, dispense & curing equipment have been used for new product designs and to solve existing product manufacturing challenges.

Agenda:

5:00PM: Doors open at ASMPT/NEXX in Billerica, for networking
5:30PM: Pizza, salad, and refreshments are scheduled to arrive, while networking continues
6:00PM: Technical Presentation
7:00PM: Formal Q&A
7:30PM: Meeting adjourns, informal Q&A and networking

Speakers

Mark Quarantiello is Loctite Territory Sales Engineer for Northern New England responsible for technical & business support for current Loctite General Industries distributors & customers within my defined territory. He has 40 years field experience in the adhesives & chemicals business including Surface Treatments & Lubricants primarily with Henkel in a variety of sales, business, & market development roles. Hands on application field experience at key customers throughout North America in the General Assembly, Medical, Loudspeakers, Automotive, Aerospace, RV Assembly, Panel Laminating, & Polymers industries.

Kristen Loose is a Lead Application Engineer for Henkel supporting target market segments for the Loctite Brand including medical, speaker, and electrical machinery. Kristen has worked at Henkel for 6 years in various roles in application engineering providing adhesive solutions to industrial customers. She has a bachelor's degree in chemical engineering from the University of New Hampshire and is pursuing a master's degree in business administration from the University of Hartford.

Syndey Hanson is a Loctite Territory Sales Engineer in Southern New England & New York.

IEEE™ Reliability Society

IEEE Boston MTT Young Professionals Outstanding Lecture – 12:00 PM, Tuesday, October 21

Modern RF Linearity Characterization: Paving the Way for Next-Generation System Design

Time: 5:00 PM, Wednesday, October 8

Location: Virtual (Zoom link will be sent to registered attendees the day before and again day of the event).

Event Registration Information: https://us06web.zoom.us/meeting/register/WwLnM3gFR6m9o9H1SIg-wtA

Description: Virtual lunchtime seminar. October 21st from 12-1 PM EDT

Speaker: Dr. Ricardo Figueiredo, Instituto de Telecomunicações in Aveiro, Portugal

Topic: Modern RF Linearity Characterization -- Paving the Way for Next-Generation System Design

Dr. Ricardo Figueiredo (pictured right) is an RF and microwave researcher at Instituto de Telecomunicações in Aveiro, Portugal, specializing in modern linearity characterization. His work focuses on how nonlinearities impact RF system performance and how better measurement techniques can drive smarter design decisions. Passionate about bridging research and real-world applications, he enjoys breaking down complex RF problems into practical insights engineers can apply. As an MTT-S Outstanding YP Lecturer, he looks forward to engaging with the community, sharing knowledge, and exploring how advanced characterization can push RF system performance forward.

IEEE Boston Chapter of the Power & Energy Society – 6:00PM, Monday, October 27

Enabling Cyber-Power Grid Resiliency with IoT Services

Time: Refreshments at 6:00pm; Talk begins at 6:30pm

Location: Wentworth Institute of Technology,
Beatty Hall, Room 426,
550 Huntington Ave, Boston, MA 02115
(Free Parking at West Parking Lot)

Speaker: Dr. Anurag K Srivastava, IEEE Fellow

Event Registration: here.

The growing integration of Internet-of-Things (IoT)-enabled edge devices, such as Electric Vehicles (EVs) and Distributed Energy Resources (DERs), is reshaping the modern electric grid into a highly connected cyber-physical-human system. These IoT-based edge devices can play a critical role in supporting grid resilience and critical loads including hospitals, airports, and emergency services, during extreme weather events and cyber disruptions. However, their connectivity also introduces new attack surfaces and operational complexities that must be addressed to maintain grid security and resilience.

This talk focuses on enabling cyber-power grid resilience with IoT services by combining advanced analytics, and human-centered decision-making. Key topics include: a) Physics-aware machine learning techniques for anomaly and event detection and estimation algorithm to provide real-time situational awareness for IoT-connected DERs and EVs, b) Operator training and cognitive flexibility enhancement to improve human decision-making during emergency, c) Formal resilience metrics that incorporate a trust score for edge devices and control systems to guide operational and investment decisions, and d) A cyber-physical-human testbed for validating resilience strategies under realistic operating conditions.

The presentation will highlight how metrics, anomaly detection, IoT-enabled services, real-time monitoring, and operational tools can collectively enhance grid resilience.

Dr. Anurag K Srivastava (pictured below), holds the Raymond J. Lane Professorship and serves as Chairperson of the Computer Science and Electrical Engineering Department at West Virginia University. Additionally, he is an adjunct professor at Washington State University and a senior scientist at the Pacific Northwest National Lab. He earned his Ph.D. in electrical engineering from the Illinois Institute of Technology in 2005.

Dr. Srivastava's research focuses on data-driven algorithms and tools for cyber-resilient electric energy systems. His impactful research projects have resulted in the implementation of tools at utility control centers, supported by over $66M in funding from entities such as the US Department of Energy, National Science Foundation, Siemens Corporate Research, Electric Power Research Institute, Schweitzer Engineering Lab, Power System Engineering Research Center, Office of Naval Research, and various National Labs. Over the years, he has held visiting positions at organizations including Réseau de transport d´électricité in France, RWTH Aachen University in Germany, PEAK Reliability Coordinator, Idaho National Laboratory, PJM Interconnection, Schweitzer Engineering Lab (SEL), GE Grid Solutions, Massachusetts Institute of Technology, and Mississippi State University.

Dr. Srivastava is an IEEE Fellow, recipient of IEEE PES Pete Sauer Educator Award, numbers of best papers award, leading multiple IEEE technical subcommittee/ WGs (Power System Operation, Resiliency, Microgrid, voltage stability, distributed optimization), and the author of over 400 technical publications, 3 books, and 3 patents.

CNET Corner

IEEE Boston Consultants Network (CNET) is a network of consultants that offer a wide variety of consulting services: electrical, hardware, software, IT, regulatory, tech pubs, and many other engineering disciplines. The article below was written by a CNET Consultant.

Check us out at:
https://bostonconsultants.org/

You don't have to be a consultant to gain knowledge from any CNET event.

IEEE Boston Consultants Network (CNET) is running several Zoom Online meetings in the remainder of 2025.

Our three part Consultant Series events (see below) are CNETs most popular events. Learn how to interface with a consultant, hire a consultant, or be a consultant.

Show up, enjoy the talk, and ask questions. We network prior to the event; add to your professional contacts. Networking is the number one reason why LinkedIn is successful, and why it's so important to network with other professionals for your career. We hope to see you at one of our events.

Enhance your professional career by becoming a consultant, or if you are a consultant join us at CNET using the link below. We help consulting professionals.

https://www.bostonconsultants.org/membership-plans-pricing

CNET Events for 2025

October 20, 2025 6:30 PM ET
Consultants Series Part 1 - Consulting 101 - Beginning Consulting

Speaker: Mark Fitzgerald – Silver Bullet Engineering, Inc. (pictured below).

Brief: Everything you wanted to know about starting consulting and being a professional business. A major part of this talk describes how to hire consultants and the best ways to interview and find consultants. You do not need to be a consultant to gain knowledge that is helpful to using consultants.
Register here.

November 10, 2025 6:30 PM ET
Consultants Series Part 2 - Consulting 201 - Advanced Consulting

Speaker: Larry Nelson Sr, PE – Nelson Research (pictured right)

Brief: Everything you wanted to know about running a consulting business.
Link: here.

November 19, 2025 6:00 PM ET

CNET/SQGNE How Consultants Improve Software Quality / Opportunities to Work with SQA Professionals

Speaker: Mark Fitzgerald - Silver Bullet Engineering, Inc. (pictured below).

Brief: Let's talk about consulting opportunities in SQA (Software Quality Assurance).

This is a software related event, but even if you work in a different discipline come and find out more about SQA so that you can interface effectively with this group. Project managers let's go!
Register: here.

Boston Consultants Network

December 1, 2025 6:30 PM ET

Consultants Series Part 3 - Consulting 301 - FDA Medical Device Regulatory Process

Speaker: David Connor – Striper Solutions LLC (pictured right).
Brief: Get the information you need about the regulatory process. No consulting background needed and no prior regulatory process knowledge needed.
Register here.

December 8, 2025 6:30 PM ET

Professional Engineer (PE) License for Consultants

Speaker: Larry Nelson Sr, PE – Nelson Research (pictured right).

Brief: Why you would consider getting a PE license and how to do so and tips on PE. Register here.

Chapter Chair Opportunities!

IEEE Boston Section

Are you ready to lead, collaborate, and make an impact in your professional community?

The IEEE Boston Section is currently seeking Chapter Chairs for:

- Circuits and Systems Society
- Communication Society
- Control Systems Society
- Product Safety Engineering Society

This is a fantastic opportunity to:

- Lead your local chapter
- Work alongside peers in your field
- Collaborate with the Boston Section Executive Committee

Chapter Chair Responsibilities Include:

Organizing 2 meetings per year, which can be done jointly with our other chapters and affinity groups like young professionals, women in engineering or our life members! These meetings can be in-person or online.

Qualifications:

- Be an active IEEE member
- Be a member of the Society you wish to chair
- Be committed to leading and growing the Chapter

Interested?

Send your statement of interest and CV to the Boston Section Executive Committee at: sec.Boston@ieee.org

ieeeboston.org

Partner/Exhibitor Prospectus

2026 IEEE International Phased Array Symposium

ARRAY 2026

BOSTON MASSACHUSETTS

October 19 - 22, 2026

www.ieee-array.org

IEEE

Digital Signal Processing (DSP) for Software Radio

Dates & Times: **Live Workshops: 6 - 7:30PM EST; Thursdays, October 23, November 6, 13, 20, December 4 and 11; First Video Release and Orientation, 6 - 6:30PM October 23, 2025. Additional videos released weekly in advance of that week's live session!**

Speaker: **Dan Boschen**

Location: **Zoom**

Attendees will have access to the recorded session and exercises for two months (until February 11, 2026) after the last live session ends!

This is a hands-on course providing pre-recorded lectures that students can watch on their own schedule and an unlimited number of times prior to live Q&A/Workshop sessions with the instructor. Ten 1.5 hour videos released 2 per week while the course is in session will be available for up to two months after the conclusion of the course.

Course Summary This course builds on the IEEE course "DSP for Wireless Communications" also taught by Dan Boschen, further detailing digital signal processing most applicable to practical real-world problems and applications in radio communication systems. Students need not have taken the prior course if they are familiar with fundamental DSP concepts such as the Laplace and Z transform and basic digital filter design principles.

This course brings together core DSP concepts to address signal processing challenges encountered in radios and modems for modern wireless communications. Specific areas covered include carrier and timing recovery, equalization, automatic gain control, and considerations to mitigate the effects of RF and channel distortions such as multipath, phase noise and amplitude/phase offsets.

Dan builds an intuitive understanding of the underlying mathematics through the use of graphics, visual demonstrations, and real-world applications for mixed signal (analog/digital) modern transceivers. This course is applicable to DSP algorithm development with a focus on meeting practical hardware development challenges, rather than a tutorial on implementations with DSP processors.

Now with Jupyter Notebooks! This long-running IEEE Course has been updated to include Jupyter Notebooks which incorporates graphics together with Python simulation code to provide a "take-it-with-you" interactive user experience. No knowledge of Python is required but the notebooks will provide a basic framework for proceeding with further signal processing development using that tools for those that have interest in doing so.

This course will not be teaching Python, but using it for demonstration. A more detailed course on Python itself is covered in a separate IEEE Course routinely taught by Dan titled "Python Applications for Digital Design and Signal Processing".

All set-up information for installation of all tools used will be provided prior to the start of class.

Target Audience: All engineers involved in or interested in signal processing for wireless communications. Students should have either taken the earlier course "DSP for Wireless Communications" or have been sufficiently exposed to basic signal processing concepts such as Fourier, Laplace, and Z-transforms, Digital filter (FIR/IIR) structures, and representation of complex

digital and analog signals in the time and frequency domains. Please contact Dan at boschen@loglin.com if you are uncertain about your background or if you would like more information on the course.

Benefits of Attending/ Goals of Course:
Attendees will gain a strong intuitive understanding of the practical and common signal processing implementations found in modern radio and modem architectures and be able to apply these concepts directly to communications system design.

Topics / Schedule:
Class 1: DSP Review, Radio Architectures, Digital Mapping, Pulse Shaping, Eye Diagrams

Class 2: ADC Receiver, CORDIC Rotator, Digital Down Converters, Numerically Controlled Oscillators

Class 3: Digital Control Loops; Output Power Control, Automatic Gain Control

Class 4: Digital Control Loops; Carrier and Timing Recovery, Sigma Delta Converters

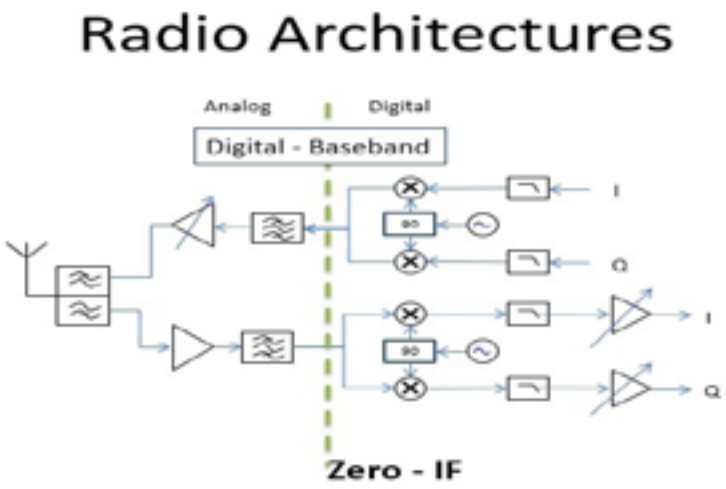
Class 5: RF Signal Impairments, Equalization and Compensation, Linear Feedback Shift Registers

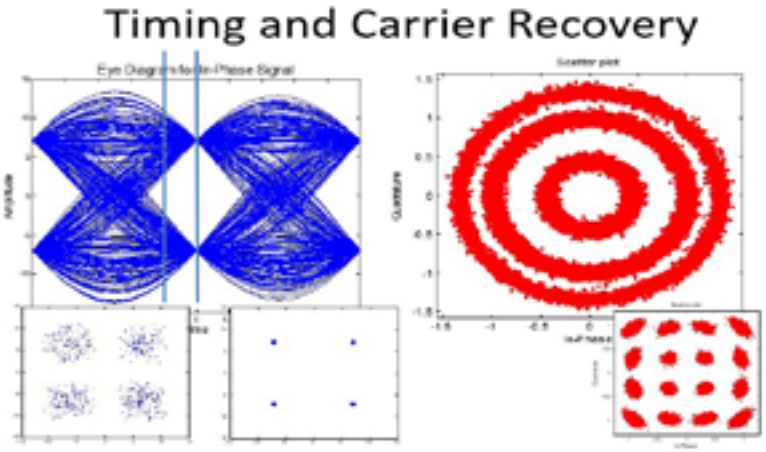
Speaker's Bio:
Dan Boschen has a MS in Communications and Signal Processing from Northeastern University, with over 25 years of experience in system and hardware design for radio transceivers and modems. He has held various positions at Signal Technologies, MITRE, Airvana and Hittite Microwave designing and developing transceiver hardware from baseband to antenna for wireless communications systems and has taught courses on DSP to international audiences for over 15 years. Dan is a contributor to Signal Processing Stack Exchange https://dsp.stackexchange.com/, and is currently at Microchip (formerly Microsemi and Symmetricom) leading design efforts for advanced frequency and time solutions.

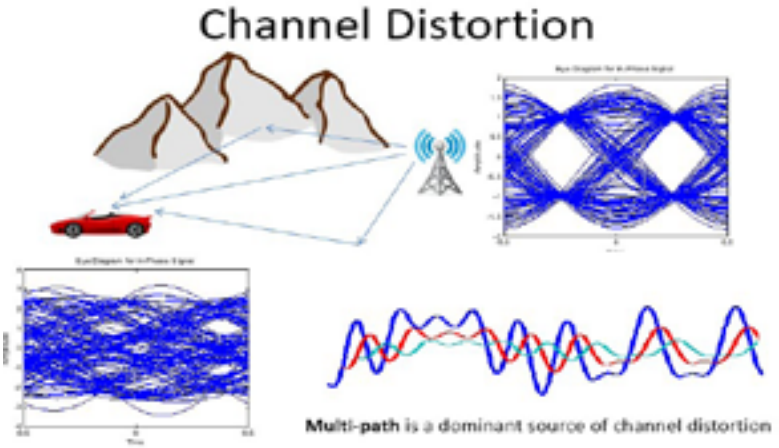
Decision (Run/Cancel) Date for this Course is Friday, October 17, 2025

Payment	By Oct 17	After Oct 17
IEEE Members	$190	$285
Non-members	$210	$315

For more background information, please view Dan's Linked-In page at: http://www.linkedin.com/in/dan-boschen







https://ieeeboston.org/courses

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- Software Development for Medical Device Manufacturers
- Fundamental Mathematics Concepts Relating to Electromagnetics
- Reliability Engineering for the Business World
- Design Thinking for Today's Technical Work
- Fundamentals of Real-Time Operating Systems

REGISTER NOW:

IEEEBOSTON.ORG/COURSES

IEEE Boston Section

IEEE Strategic Plan

2025-2030

OUR MISSION

We foster technological innovation and excellence for the benefit of humanity.

OUR VISION

We will be essential to the global technical community and to technical professionals everywhere, and be universally recognized for the contributions of technology and of technical professionals in improving global conditions.

CORE VALUES

- Growth & Nurturing
- Trust
- Partnership
- Integrity in Action
- Global Community Building
- Service to Humanity

OUR GOALS

Advance science and technology as a leading trusted source of information for research, development, standards, and public policy

Drive technological innovation while promoting scientific integrity and the ethical development and use of technology

Provide opportunities for technology-related interdisciplinary collaboration, research, and knowledge sharing across industry, academia, and government

Inspire intellectual curiosity and support discovery and invention to engage the next generation of technology innovators

Expand public awareness of the significant role that engineering, science, and technology play across the globe

Empower technology professionals in their careers through ongoing education, mentoring, networking, and lifelong engagement

IEEE will foster a collaborative environment that is open, inclusive, and free of bias and will continue to sustain the strength, reach, and vitality of our organization for future generations.

www.ieee.org/strategic-plan

Approved by the IEEE Board of Directors, November 2024

IEEE

Advancing Technology for Humanity

IEEE Boston Section Volunteers Wanted!

Are you passionate about technology and eager to contribute to the advancement of your field? The IEEE Boston Section is excited to announce a call for volunteers to join our dynamic team of professionals and enthusiasts. By becoming a volunteer, you'll have the opportunity to collaborate with like-minded individuals, develop new skills, and make a meaningful impact on the local technology community.

About IEEE Boston Section:

The IEEE Boston Section is a thriving community of engineers, researchers, students, and industry professionals dedicated to promoting technological innovation and knowledge sharing. Our section hosts a variety of events, workshops, seminars, and conferences throughout the year, providing members with opportunities to learn, network, and stay updated on the latest developments in their fields.

Volunteer Opportunities:

We are currently seeking volunteers to help on the following committees:

The Fellow and Awards Committee - activities include recommending qualified members of the Section for advancement to Fellow grade and for receipt of the various IEEE (IEEE/Region/MGA/Section) awards. Identifying and building a database of the various IEEE awards available for nomination and searching out qualified candidates, for preparing the necessary written recommendations, and for assembling all required supporting documentation and submit its recommendations directly to the appropriate IEEE body.
Time Commitment: Meets 4 times a year for 1 – 2 hours per meeting (virtual or in person)

Local Conferences Committee - activities include identifying timely topical areas for conference development. Identify champions of these conferences to run the identified conference organizing committees. The section local conference committee is not charged with organizing and executing individual conferences.
Time Commitment: Meets 4 times per year 1 – 2 hours per meeting (virtual or in person)

Professional Development & Education Committee - activities include identifying topics, speakers, and/or organizers for appropriate technical lecture series or seminars. The subject matter should be timely, of interest to a large segment of the membership, and well organized with regard to speakers and written subject matter.
Time Commitment: meets 4 times per year, 1 – 2 hours per meeting (virtual or in person)

The Membership Development Committee - activities include actively promoting membership in the IEEE and shall encourage members to advance to the highest grade of membership for which they are qualified. To these ends this committee shall include wide representation within the Section territory, shall maintain lists of prospects and members qualified for advancement, and shall provide information and assistance to preparing applications.
Time Commitment: meets 4 times per year, 1 – 2 hours per meeting (virtual or in person)

Student Activities Committee - activities include attracting a broad and diverse group of undergraduate and graduate students to IEEE and to engage them in activities that promote their own professional development as well as the ongoing growth of IEEE. The Student Activities Committee shall include among its members the IEEE Counselors at the universities, colleges, and technical institutes that lie within the Section territory. It shall be responsible for liaison with the Student Branches at these institutions and advise the Executive Committee on all other matters affecting the Student Members of the Section.
Time Commitment: meets 4 times per year, 1 – 2 hours per meeting (virtual or in person)

Young Professionals Affinity Group - activities include organizing programs, and initiatives aimed to address the needs of early-career professionals pursuing technology-related careers in engineering, business, management, marketing, and law. This committee is committed to helping young professionals evaluate their career goals, polish their professional image, and create the building blocks of a lifelong and diverse professional network.
Time Commitment: meets 4 times per year, 1 – 2 hours per meeting (virtual or in person)

Benefits of Volunteering:

Volunteering with IEEE Boston Section offers numerous benefits, including:

- Networking opportunities with professionals in your field.
- Skill development and enhancement through hands-on experience.
- Contribution to the local technology community and its growth.
- Access to cutting-edge information and discussions.

How to Get Involved:

If you're enthusiastic about technology and want to make a difference, we invite you to join us as a volunteer. To express your interest and learn more about specific roles, please visit our website and fill out the volunteer application form. Our team will get in touch with you to discuss opportunities that align with your interests and skills.

Thank you for considering this opportunity to contribute to the IEEE Boston Section. Your dedication and passion are what drive the success of our community and its impact on the world of technology.

Volunteer Here!

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