

# IEEE Region 2



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Mr. Barry Tilton



## 2022 New Year's Message from the Region Director

Region 2 membership, welcome to 2022. Many of you haven't met me, Mr. Barry Tilton, because with COVID very little has happened in the way of interaction over the last 20 months. I spent the first eight months of the pandemic as the Director-Elect for the region, and have been your Director now for a full year without ever setting foot outside of Northern Virginia on

any IEEE business. This regrettable but necessary lack of engagement will hopefully be coming to an end very soon. If the Omicron variant is not followed by something immediately more challenging, IEEE plans to resume many activities as the northern hemisphere spring thaw occurs. I will be having my first live region meeting in

Baltimore and the Board will continue its normal business hopefully starting in early March.

Much of import to our region is on the table at the moment. IEEE is exploring whether or not the current region structure needs adaptation to the changes in world population and technical growth in other countries. As details on strategies for realignment become clear I will share these with the members and solicit opinions and impacts so that I may properly address them to the Assembly (the part of the leadership team where I directly represent the mid-Atlantic states).

In other news the upside of the lockdown is that communications technologies have really flourished in response to the need for online integration of activities formerly held always in person. I am very much of mixed opinion concerning this evolution... Ongoing work is very easily adapted to the online format, but strategic activities and social activities both have a necessary in person component. The lack of this direct interchange face-to-face has led to reduced appreciation for diverse viewpoints as people naturally live in their own bubble - both physically and psychologically.

It is my sincere hope that during the next 11 ½ months that I will get to meet many of you and discover your perspectives on how IEEE serves your needs and how we could do that better. 2022 President Ray Liu has established an effort to explore IEEE as your professional home as his signature effort for the year. I will be supporting this effort and seek your ideas on how the various members within the academic, industry, government, young professional and senior communities would best benefit from and contribute to our home.

## Region 2 Section Leader Development

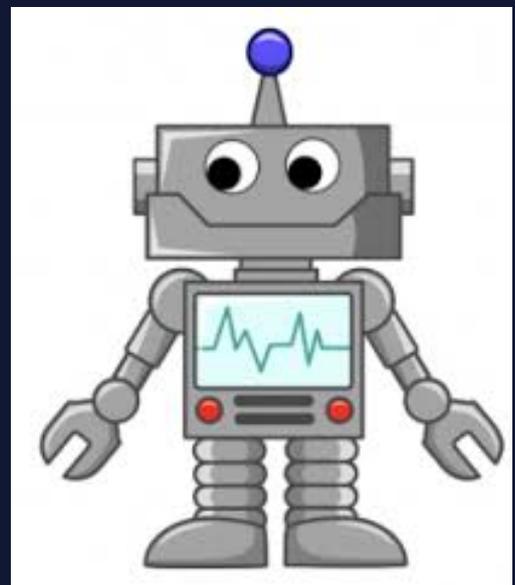
IEEE Region 2, South Area is offering a Leadership Development program (virtually) on Saturday 05 February, 2021 from 0900-1300. Sign up [here](#) today!



## Ramping Up for the Robots

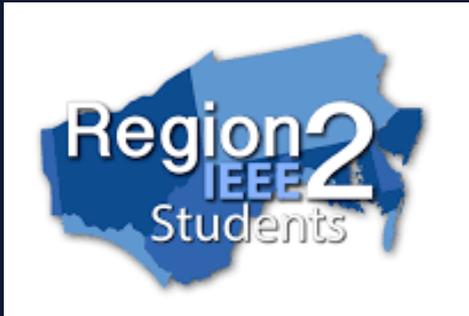
Robots are on the Roadmap for Region 2! We have the following special events on our radar. We hope you'll join us for these informative sessions.

- Starting **1/17, Weekly** Drexel Sumobot Robotics Sessions
- **1/22** @ 0900 Robotics in Disaster and Environmental Research
- **1/22** @ 1000 IEEE Baltimore Robot Challenge Teacher and Parent Orientation **Training**



## IEEE R2 Student Activity Conference Planning

**Join Us** on 22 February 2022 @ 0730 for Planning for the 2022 Regional Student Activities Conference to be held April 22-24, 2022.



Sponsored by the **Baltimore Museum of Industry** (BMI) as one of their Maryland Engineering Challenges; and the Institute of Electrical and Electronic Engineers (IEEE), who developed the concept, the **Robot Challenge Event** will be held over two days in 2022: On Saturday, April 23, there will be a Virtual Event on Zoom, whereas on Sunday, April 24, 2022, the Event will be held in person, at the Baltimore Museum of Industry. Detailed information can be found [here](#). Contact: **Mr. Neville Jacobs**.



## DREXEL IEEE DragonHacks 2022



**Drexel IEEE** is pleased to share that we will be holding **DragonHacks**, our annual 24-hour **hackathon**, April 30th-May 1st, 2022!

At DragonHacks, participants have **24 hours to design and build a project/hack** and compete for a pool of amazing prizes! In addition to competing for prizes, participants also have the opportunity to:

- Attend workshops hosted by Drexel IEEE and companies alike aimed at helping learn new skills
- Interact and network with attending sponsors and other students
- Obtain free merch and swag
- Play games and have fun!

First time attending DragonHacks or a hackathon? Not a problem! In addition to the workshops mentioned above, if you're interested in working in a team we'll have team building activities before hacking begins at 1 PM to help you find a group! DragonHacks is open to all university students as well as high school students over the age of 18.

# IEEE WIE 25th Anniversary



The year **2022** will mark the 25th anniversary of **IEEE Women in Engineering** and we are planning a full year of celebrations and key moments to reflect on the great progress and achievements made by great women in STEM within the IEEE. We also plan to celebrate the great men who consistently support women along the way.



The WIE 25th anniversary Subcommittee is ready to announce the portfolio of activities which will start with concerted reflections by the past and current WIE chairs, who have led the Committee since its formation in 1997, with a special interview session this year. Follow our **Events** [here](#).



## The Impact of Emotional Intelligence on Effective Leadership

**Noor E Karishma Shaik**

The process of leading others to attain a goal is known as leadership. Leaders must use emotional intelligence to understand themselves and their workers better to achieve more excellent results. In leadership, emotional intelligence (also known as emotional quotient or EQ) allows you to interact with your team and work with others. The way you interact with others can set the tone for your leadership style. Leaders who lack emotional intelligence cannot relate to or comprehend people, which leads to decreased employee engagement and turnover. Emotional intelligence is a set of noncognitive skills, abilities, and competencies that enable people to control and manage their emotional reactions to events and stresses. Read the full article [here](#).



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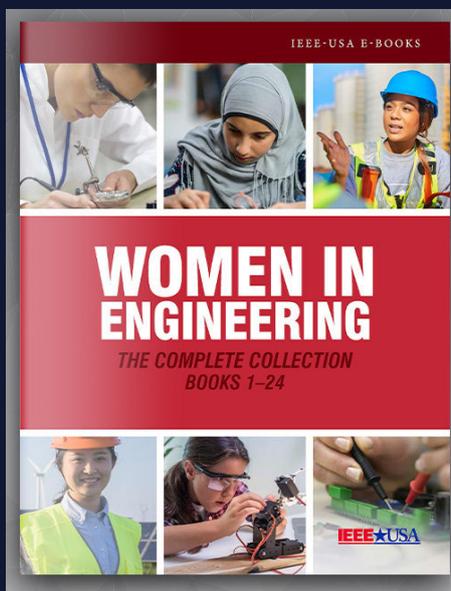
## IEEE – USA Special Resources

### Gamify Your Goal Setting to Level Up Your Career

With a new year often comes new goals, but sticking with them as the year goes on can be a challenge. In this [article](#), **Paige Kassalen** explains how you can use gamification to meet and exceed your personal and professional goals in 2022.

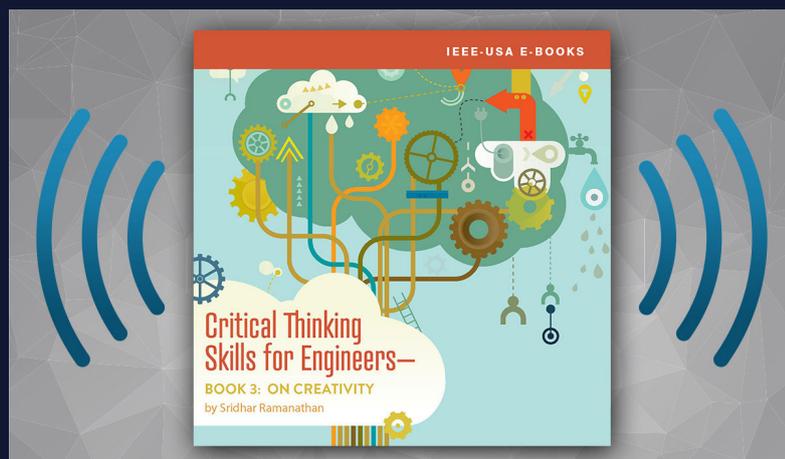


### WOMEN IN ENGINEERING: COMPLETE E-BOOK SERIES NOW AVAILABLE



**IEEE-USA's Women in Engineering** e-book series has offered two dozen women in our field the opportunity to tell their stories — highlighting successes and failures, as well as challenges and triumphs. [Download](#) the whole collection now, free for all IEEE members.

### NEW IEEE-USA AUDIOBOOK HELPS ENGINEERS FOSTER CREATIVITY



The third entry in IEEE-USA's popular **Critical Thinking Skills for Engineering** series by Sridhar Ramanathan explores creative approaches for individuals and groups. Dive into useful exercises and ideas in nine areas of creative thinking. For the first time, this volume is available as an audiobook! [Download](#) it for free today; members can also download the companion ebook for free.

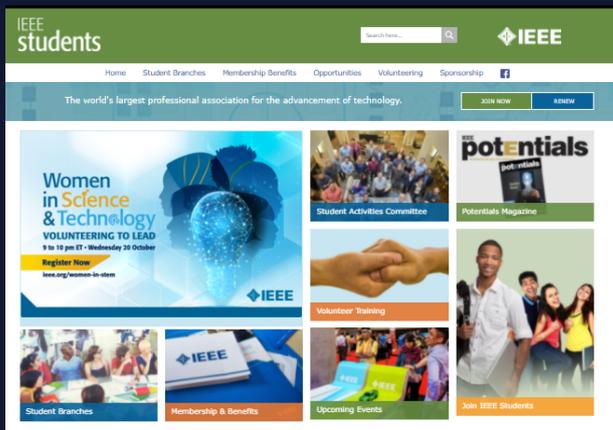
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# IEEE Students

## Take the Next Step Together

Accelerate your growth by associating with like-minded people and take advantage of all benefits the [IEEE Student Membership](#) offers.

For non-students, you can continue to help build out IEEE's organizational pipeline by recruiting new student and faculty sponsors for **[Student Branches](#)** and affinity groups, , volunteering for the SAC committee, being an Ambassador, or becoming a program **[Sponsor](#)**.



### Opportunities Aboard

- Student Branch Affiliated **[Awards](#)**  
Open 01 FEB 2022
- Become a **[Virtual Speaker](#)**
- Host a **[SPAx Event](#)**
- Participate in an IEEE **[Contest](#)**
- Find a **[Scholarship](#)** or Funding
- Participate in **[Humanitarian](#)** Activities
- Earn a **[Badge](#)**

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# CLAIM YOUR STUDENT DISCOUNT NOW!

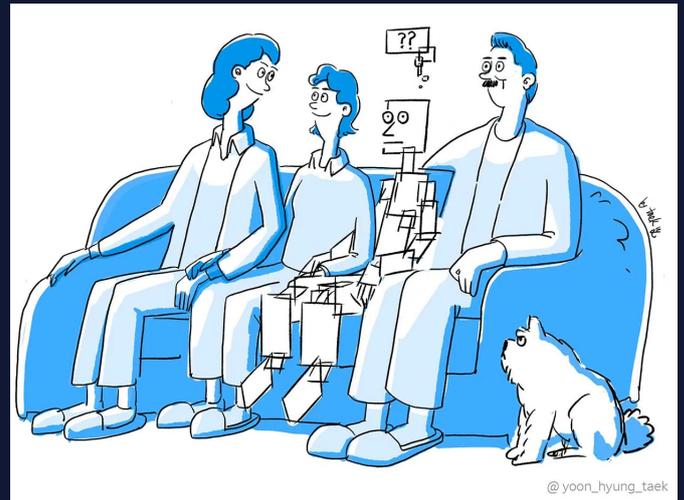
SAVE 50%  
ON STUDENT  
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WITH THIS  
CODE:  
**FUTURE50**

## How the Financial Industry Can Apply AI Responsibility

This IEEE playbook puts principles into practice. Artificial intelligence is transforming the financial services industry. The technology is being used to determine creditworthiness, identify money laundering, and detect fraud.

AI also is helping to personalize services and recommend new offerings by developing a better understanding of customers. Chatbots and other AI assistants have made it easier for clients to get answers to their questions, 24/7.

Although confidence in financial institutions is high, according to the Banking Exchange, that's not the case with AI. Many people have raised concerns about bias, discrimination, privacy, surveillance, and transparency. Read the full article [here](#).



## AI and Robots Are a Minefield of Cognitive Biases

Humans anthropomorphize our technology, sometimes to our own distraction and detriment.

Most people associate artificial intelligence with robots as an inseparable pair. In fact, the term “artificial intelligence” is rarely used in research labs. Terminology specific to certain kinds of AI and other smart technologies are more relevant. Whenever I’m asked the question “Is this robot operated by AI?”, I hesitate to answer—wondering whether it would be appropriate to call the algorithms we develop “artificial intelligence.”

First used by scientists such as John McCarthy and Marvin Minsky in the 1950s, and frequently appearing in sci-fi novels or films for decades, AI is now being used in smartphone virtual assistants and autonomous vehicle algorithms. Both historically and today, AI can mean many different things — which can cause confusion. Read the full article [here](#).

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## DiscoverE Future City

Future City is a project-based learning program where students in 6th, 7th, and 8th grades imagine, research, design, and build cities of the future.

Future City is your chance to dream about your future. What kind of city do you want to live in, what can be done better in your future city? You and your teammates are in charge of coming up with ideas and making them happen. You'll have support from your teacher and mentor, but ultimately it is all about your ideas, vision, and work.



The Future City Competition engages more than 45,000 middle school students each year throughout the United States and abroad. Students repeatedly report that the program increases their motivation and excitement about STEM (Science, Technology, Engineering, and Math). In addition, students and teachers report a marked improvement in students' 21st Century skills.

While Future City is first and foremost an educational engineering experience, there are also awesome prizes that teams can win! Teams that win their Regional Competition advance to Finals. Finals takes place each February in Washington, DC.

DISCOVERE  
PRESENTS

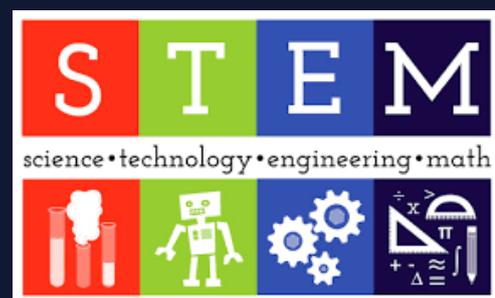
Chats with  
Change  
Makers

Tune into our monthly series "**Chats with Change Makers**" hosted by our high school junior host Tiffany, to meet STEM professionals who are working hard to change the world. Teachers and parents are invited to tune-in along with their students to meet an engineer and ask questions. At the end of each session, the engineer guest issues a hands-on STEM challenge that kids can do away from their screens.

2022 Schedule – **Join us** on the fourth Thursday each month for the Chat with Change Makers series.

We invite you to also take a few moments and find out more about **STEM Careers!** Engineers, technologists, and technicians are changing the world all of the time. They dream up creative, practical solutions and work with other smart, inspiring people to invent, design, and create things that matter.

We also invite you to search for relevant **STEM Activities** to engage with. We offer a plethora of options for Youth in K-12.



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## Central Area

The Central Area covers the following IEEE R2 Sections:

- Central Pennsylvania
- Erie
- Johnstown
- Pittsburgh
- West Virginia
- Susquehanna



Chair: James A. Beck

## East Area

The East Area covers the following IEEE R2 Sections

- Philadelphia
- Southern New Jersey
- Lehigh Valley
- Delaware Bay



Chair : Joseph Burns



**IEEE-USA Washington Update**  
20 January @ 1:00 pm - 2:00 pm | **Recurring**



### IEEE-USA Public Policy

IEEE-USA is the eyes, ears and voice of America's technology professionals in Washington, D.C., and the state capitals. Dedicated volunteers and experienced staff work directly with our nation's leaders to craft technically sound solutions to the challenges facing the country and technology professionals.



**2022 IEEE 12th Annual Computing and Communication Workshop and Conference (CCWC)**  
26 January - 29 January

## South Area

The South Area covers the following IEEE R2 Sections

- Baltimore
- Northern Virginia
- Washington D.C.

Chair: Don Herres



## West Area

The West Area covers the following IEEE R2 Sections

- Akron
- Cincinnati
- Cleveland
- Columbus
- Dayton
- Lima
- Youngstown

Chair: Chang Liu



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# JOIN AN AFFINITY GROUP

# JOIN A COMMUNITY



## Collaborate, Engage, and Follow Us in 2022



# SUPPORT OUR STUDENTS & ENTREPRENEURS

# ATTEND AN R2 EVENT



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