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IEEE Baltimore Section 'Watts New' Newsletter: May 2021

'Multiplexing the Signals of the Monumental City'

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The ROBOT CHALLENGE is in need of JUDGES!! [\(Back to Top\)](#)

The members of the Baltimore Section of the Institute of Electrical and Electronics Engineers (IEEE) have organized this annual event to give students a taste of what it's like to be an engineer. This year the Robot Challenge will be held On-line using Zoom, and it will be different, but is expected to be just as exciting as when it was held at the Baltimore Museum of Industry - if not more so! Student will have built up their robots, decorated them, then they compete with other teams over a curved 'slalom' course as the Judges measure their Performance. They've also had to write a Written Report about their struggles, then make an Oral Presentation to a Panel of Judges (YOU), who also check their workmanship, and share their experiences.

This is your opportunity to JUDGE and MENTOR these eager High School and Middle School students, and pass along some of what you have learned over the years!

Note: All judges work in pairs.

When:

- Written Report Judging: May 15 to May 17, from home.
 - Training and trial runs: Sunday, May 16 Training: 9 AM to 10 AM (required)
 - Observe Trial Runs (optional), 10 AM to Noon.
 - Robot Challenge 2021: Sunday, May 23, 8:45 AM to 3 PM
 - Awards (optional) 5 PM.
- (All the above, from the comfort of your home!).

To register, please contact Ben Menachery at benaud.menachery@ieee.org or speak to Neville (410-653-4176).

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IEEE Guide to Autonomous Vehicle Technology (Online Course) [\(Back to Top\)](#)

The Baltimore Section of the IEEE, in close collaboration with the Continuing Education Committee (CEC) of the Educational Activities Board (EAB) of the IEEE, is organizing and sponsoring a series of online courses, eligible for CEU credits. This third online course, to be taken individually, is planned for the time window June 16-30,

2021. The course is part of the IEEE eLearning program, offered through the IEEE Learning Network (ILN).

When:

Register no later than May 31, 2021.

Access to class will occur between Jun 16th to June 30th, 2021.

Automated vehicle technologies are developing rapidly, and promise to improve driving safety. While these advanced technologies offer potential benefits to drivers, uncertainty remains about efficacy and usability when users interact with these systems. IEEE Fundamentals of Autonomous Vehicle Technology is a program that covers foundational and practical applications of autonomous, connected, and intelligent vehicle technologies, including:

- An overview of current state-of-the-art systems, deep learning algorithms, and other intelligent approaches that promise safer and easier driving.
- Advanced insight into recent developments made in human-centered design in mixed traffic scenarios
- In-depth case studies that demonstrate how to test, evaluate, and refine systems in this next era of automation
- A comprehensive look ahead at how self-driving vehicles will impact day-to-day business and operations for academic, corporate, and government organizations.

The whole course program is eligible for 0.7 CEUs equivalent to 7 PDHs. Certificates are issued immediately upon completion of the course at no additional cost.

Please register no later than MAY 31, 2021!

And note: This is a pilot project. If successful, more courses like this will follow!

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