



2022 Student EMC Hardware Design Contest

The Education Committee (EdCom) of the IEEE EMC Society would like to invite students currently enrolled in a college or university at either the graduate or under-graduate level to submit a short video (max 10 minutes) that demonstrates a fundamental concept of Electromagnetic Compatibility (EMC), Signal & Power Integrity (SIPI), or related topic. Submitted videos should be both entertaining and educational. They should be hardware demonstrations, not software simulations. The contest is designed to provide an opportunity for student competitors to showcase their creative skills while informing other students or the general public about a topic relevant to EMC or SIPI. Videos should be designed and produced by a student or a small group of students working together. Advisors should limit their help to answering basic EMC questions from the student once the project has begun.



Competition Coordinators

Pavithrkrishnan Radhakrishnan
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Bruges, Belgium

2022 IEEE INTERNATIONAL SYMPOSIUM ON
ELECTROMAGNETIC COMPATIBILITY, SIGNAL & POWER INTEGRITY

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SCHEDULE

Student EMC Hardware Design Contest Schedule

- Enrollment period is open from: January 3, 2022
- Deadline to submit videos: April 29, 2022
- Notification of winners: June 17, 2022
- Top 3 finalists will be listed in the conference program.
- Winning entries will be recognized at the Awards Luncheon IEEE EMC + SIPI 2022: August 4, 2022

STUDENT HARDWARE DESIGN COMPETITION GENERAL RULES

1. The Team should include a mentor (i.e academic advisor, industry professional, etc.). Entries are limited to one team per mentor.
2. Student groups are expected to complete the work on their own.
3. The student(s) should use the corresponding institutional email address rather than their personal emails for all correspondence.
4. All submittals will be judged by a team comprised of several EMC Society Education Committee members based on technical design, creativity and educational merit/value.
5. The winning team will receive a first prize of \$1,000 USD plus a travel grant of a maximum of \$2,000 USD to cover the cost for one member or more members to attend the conference. The best runner up will receive a prize of \$500 USD. Award recipients will need to complete the appropriate US Department of the Treasury Internal Revenue Service forms as required by the IEEE. Travel stipend recipients will need to complete an expense account report for reimbursement.
6. The winning team will be asked to submit a brief article to IEEE EMC Magazine in order to share their design experience with the greater EMC Community.

STUDENT HARDWARE DESIGN COMPETITION INSTRUCTIONS

Submit the video or a link where the video can be viewed to:

Student Design Competition Coordinator

Pavithrkrishnan Radhakrishnan

(pavithrkrishnan.radhakrishnan@ieee.org)

Submissions should include the names of all team members and their institutional email addresses along with the mentor's name, title and email address. Submissions will be accepted anytime between January 3, and **April 29, 2022**. Prepare the video as instructed (title, team members, mentor name and institution name in the beginning with institutional background) and have the mentor prepare a letter stating that the video is the original work of the students. **This letter is mandatory**. The submitter will receive an email confirming reception of the contest entry.

Evaluation Criteria: Entries will be judged on technical design (35%), creativity (35%), and educational merit (30%).