

We want YOUR Perspective! Yes, you.

Design Vision Competition: Design Disruptions

Sponsored by: ASEE Design in Engineering Education Division

Provocative. Visionary. Aspirational. Innovative.

**Entries accepted in 3 Divisions: Undergraduate Student, Graduate Student, Practitioner
Up to 3 Winners will each receive a \$500 fellowship grant to attend ASEE 2020**

You love to design. You have taken or taught design classes. As the ultimate stakeholder of design education and/or practice, we look to you to imagine ...

What is a potential emerging disruptive change that impacts engineering design?

... and describe your vision in any medium: slideshow, essay, video, storyboard, other ...!

There are many examples of disruptive change. Refrigerators used to be cooled by blocks of ice, telephones had rotary dials, and television sets had only three channels. Today that seems quaint, but at the time it was the epitome of high tech. Of course, we are still keeping food fresh, making phone calls, and watching TV, but in very different ways. A brief glance back at the 19th and 20th centuries tells us that we live in an age of disruptive technology. Steam engines made possible a vast railroad system that opened up an entire continent to development. The invention of the automobile, quickly followed by the airplane, changed the nature of transportation in even more astonishing ways. Today, technical innovation is so rapid and pervasive that new industries are springing up all the time, and old ones are disappearing just as quickly.

How did these new technologies impact engineering design approaches? How can engineers prepare for and respond to technological advances that drastically change the options they consider in their design work, including the design problem itself? We invite you to consider a potential emerging disruptive change and the role it may have in engineering design approaches and outcomes. Describe the disruption and how you envision it will impact design. What aspects of this disruption make it significant?

Share your ideas through any form of media—essay, video (5 min or less), art, poster, etc. Up to three winning submissions will get to share their work as part of a DEED Session. At the session, the winners will be honored, including the official awarding of \$500 (to offset part of the cost of attending ASEE) and an award certificate to each winning submission.

Evaluation and Selection of Winners:

A panel of judges from the Design in Engineering Education Division will review applications and select up to 3 award winners from the (1) Undergraduate, (2) Graduate and (3) Practitioner categories. The Practitioner category is intended to support those in roles such as industry, instructors/teaching faculty, and staff affiliated with design work or similar initiatives. Criteria used in evaluating the submissions will assess the degree to which the submission is:

- **Innovative** – not an obvious or repeated idea; expresses creativity in its core message and/or delivery
- **Aspirational** – sets a high bar for what might be
- **Grounded** – provides a strong basis and rationale, including references where appropriate
- **Well Communicated** – presented in a way that makes the message accessible and understandable

Submissions are due March 31, 2020
Winners will be informed no later than May 1, 2020

Body: There is a high level of flexibility here in your form of creative expression. Submit text, images and/or video in any one of **ONE** of the following formats:

- Maximum of two 8.5" x 11" pages of written text, with illustrations, may be 3 pages
- One large poster-type page (~2'x3' if printed) of images, drawings, photos and/or figures as appropriate
- Photograph story - on poster or in a 5 ± 1 min video
- 5 ± 1 minutes of a timed slide show
- 5 ± 1 minutes of video

Example: For example, you could include photos with captions on a poster or an animated video comprised of photos. Alternatively, you could write your thoughts in essay form and include illustrations as you choose; alternatively, you could create an essay-type document with some illustrations – whatever your style calls for .

You are responsible for creating, storing, and uploading your entry.

Theme:

- You must try to convey a core message.
- Provide an interesting title for your submission.
- Prominently include a one-sentence takeaway for your entire submission: If you only had one sentence to convey the role of disruption in design and thus design education, what would that sentence be?

Entries:

- Student submissions can be from individuals or pairs, but the award will be shared if the submission is from a pair of students. If submitting as a pair, both students should be undergraduate or both should be graduate, not one undergraduate and one graduate student.
- You must upload your file at the end of the Google form.
- Winning entrants must attend the 2020 ASEE Conference

Submission: is easy!

- Navigate to this submission form: <https://forms.gle/EboTBDzKELaUqbuR8> where you will enter the following information:
 - ◆ Full Name
 - ◆ Entry Category – Undergraduate, Graduate, or Practitioner
 - ◆ Entry unit: Individual or Pair – and name of partner if submitting in a pair (optional).
 - ◆ Affiliation: University, Company, or Department
 - ◆ Title of your entry
 - ◆ One sentence describing your entry theme
 - ◆ Upload your entry
- Do not include any personally identifying information in the submitted document or media. Instead, please include responses to the questions posed in the form provided.