

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 4 categories: Pre-college, Undergraduate Student, Graduate Student, Practitioner Up to 4 Winners will each receive a \$500 fellowship grant to attend ASEE 2021 ASEE membership NOT required. Link: <https://forms.gle/EboTBDzKELaUqbuR8>

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. Covid-19 is a prominent example... 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 tell 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 feature their work as part of a DEED Session at ASEE 2021. Other high-quality entries will be selected to present as well. At the session, the winners will be honored, including the official awarding of \$500 to offset the cost of attending ASEE, and an award certificate to each winning submission.

Evaluation and Selection of Winners/Presenters:

A panel of judges from the Design in Engineering Education Division will review applications and select up to a total of 4 award winners from each of the (1) Pre-college, (2) Undergraduate, (3) Graduate, and (4) 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 by a broader audience.

Submissions are due March 31, 2021
Winners and other selected presenters will be informed no later than May 1, 2021

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 the following formats:

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

Feel free to be creative!!

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 an essay form and include illustrations as you choose – whatever matches your style.

You are responsible for creating, storing, and uploading your entry to the google form, provided below.

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 2021 ASEE Conference

Submission is easy - You can start your entry at any time and continue working on it until the deadline!

- Navigate to this submission form: <https://forms.gle/EboTBDzKELaUqbuR8> where you will enter the following information:
 - Full Name
 - Entry Category – Undergraduate, Graduate, or Practitioner - which can be updated until the final version
 - Entry unit: Individual or Pair – and name of partner if submitting in a pair (optional). which can be updated until the final version
 - Affiliation: University, Company, or Department
 - Title of your entry - which can be updated until the final version
 - One sentence describing your entry theme - which can be updated until the final version
 - Upload your entry - edit your drafts until your final version before the deadline•
 - Submit multiple ideas - Each individual may submit multiple entries as long as each idea is *significantly* different from the original.

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.

Please feel welcome to contact Kris Jaeger-Helton at bkjaeger@coe.neu.edu with any questions.