

**Due date of this homework is: September 7th at 10:59:59.** You can work in groups of two for this homework. Each group can have a maximum of 1 grad student.

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One of the core objectives of the class is to improve communication skills of engineering topics. Engineers get a bad reputation for being sloppy and reckless in terms of producing elegant communicative documents or content. For this homework:

- Thoroughly read the ASCE Report Card 2021. Here's some links:
  - <https://infrastructurereportcard.org>
  - Executive summary: <https://www.infrastructurereportcard.org/wp-content/uploads/2020/12/2021-IRC-Executive-Summary.pdf>
  - Longer version: [https://infrastructurereportcard.org/wp-content/uploads/2020/12/National\\_IRC\\_2021-report-2.pdf](https://infrastructurereportcard.org/wp-content/uploads/2020/12/National_IRC_2021-report-2.pdf)
  - Infographic: <https://www.asce.org/-/media/asce-images-and-files/about-asce/annual-report/2021-asce-annual-report-infographic.jpg>
- Prepare a 2-3 minute video about a summary of the report. Essentially, I want you to pretend that you're a journalist who's covering the findings of this report. Y'all have phones with good cameras (and good microphones) so you can record yourselves talking (video or voice-over). I will talk more about this homework in class, but essentially I want you to produce a compelling case for spending more on the US infrastructure. You can choose to focus on a specific infrastructure if you want (or just give a broad overview of the report, or focus on two-three infras), but the whole idea is to work in a group to produce a well-developed video. There's plenty of free video editors online. Start with this early. Form your groups ASAP.
- The whole idea is for us to have fun and enjoy doing this. I think this homework will allow you to develop a new skill which IMHO essential for engineers today—communicating technical ideas in a simple, yet compelling way. Do your best please.