# Goal: Design Defensible Samples and Test Beds

## Facility Study Due: October 5, 2020

## Data Collection & Formulae Due: October 19, 2020

## Instructions:

1. Research what 3D printed parts are commonly used in prototyping or, preferably, in the final assembly of constructions
2. Determine their possible failure methods or how they fail in usage
3. CAD a reasonable test bed which would follow from the research and failure method

## Comments:

* Document your discovery process in a doc or folder
* Failure methods should preferably verified with analysis or data (or pictures)
  + If no evidence can be found, keep it around for when we do our in-house testing
* Keep in mind the limitations of our printer when you CAD
  + Parameterize angles, cuts, or anything else you think we may need to change on the fly