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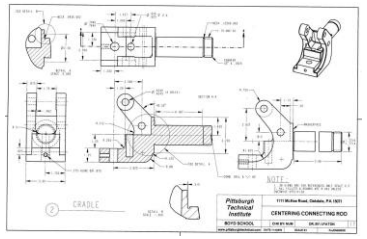
Engineers, Technical Operators and the Drawings Bridge That Binds Them



The Importance of Drawings

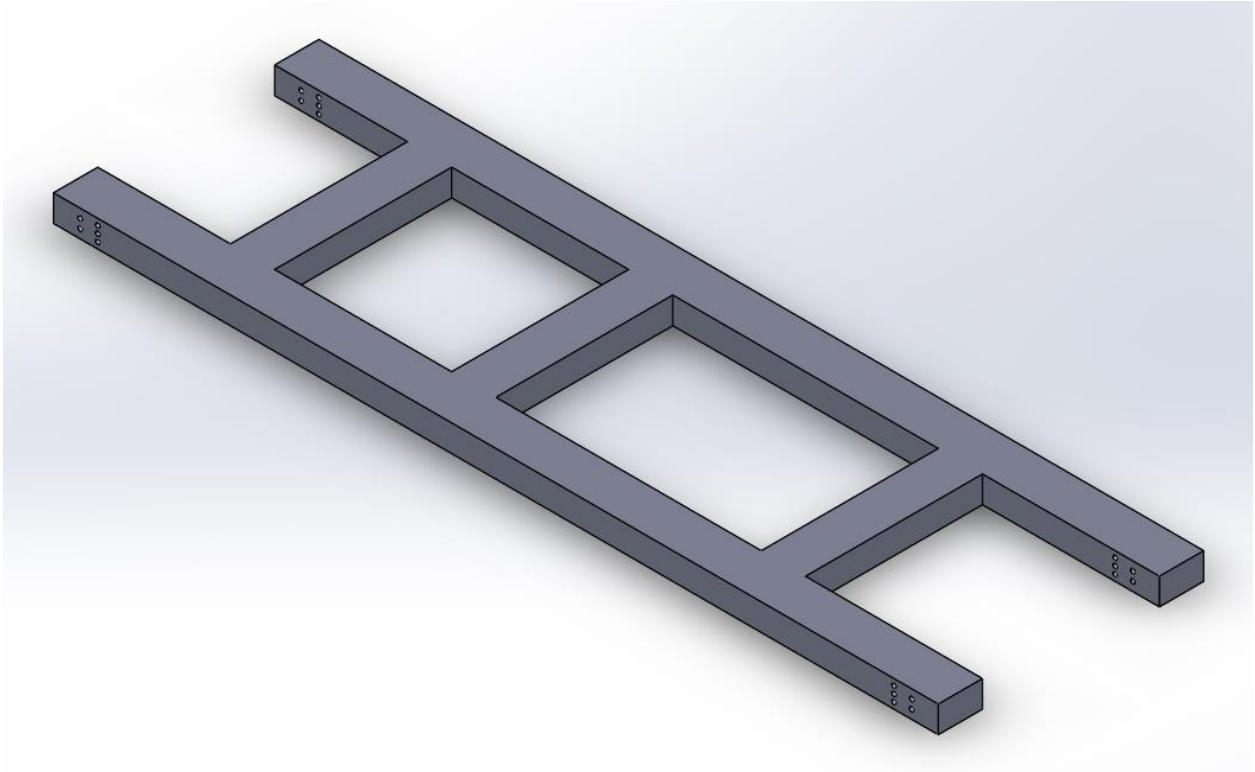
- I’ve talked a bit about why engineering drawings are important… let’s recap.
- Drawings are the only way for us to get our designs/creations from the virtual space to the real world.
- These are the only instructions machinists will have when design processes and manufacturing parts.
  - If it is wrong, it will most likely be manufactured wrong.
  - If it is really wrong, it *might* get caught before it can cause a problem for that part.

Drawings Strategy

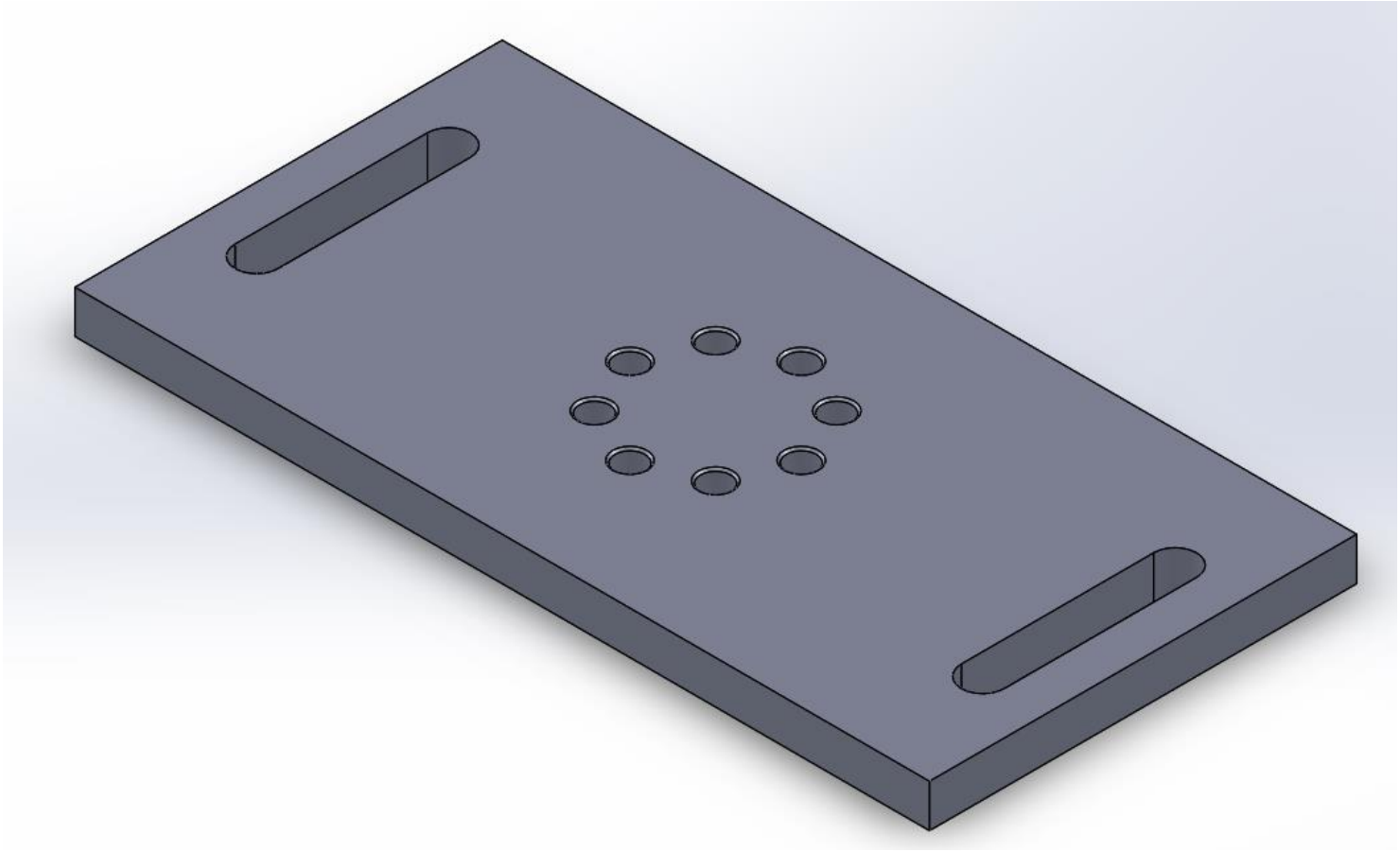
- In general, this is my approach:
  1. Import the views (two or three depending on part complexity)
  2. Pick horizontal and vertical datum(s)
  3. Dimension
  4. Callouts
  5. Quality check (this is the most time consuming part)
  6. Check
  7. Re-check
  8. Re-re-check

Example 1

Example 2



Example 3



Optional Challenge

- As I mentioned in today's tutorial, I have uploaded a poorly executed engineering drawing of Example 3.
- The file in the Week 3 Teams channel is called "Spot the Problems".
- I'd suggest giving the following things a go
  1. Identify all the things that are wrong with the drawing
  2. Using the part file in the Week 3 Teams channel folder, attempt to create a "perfect" engineering drawing.
- I will release my version of the drawing at the end of this week.