

You Can Design It... Can You Build It?

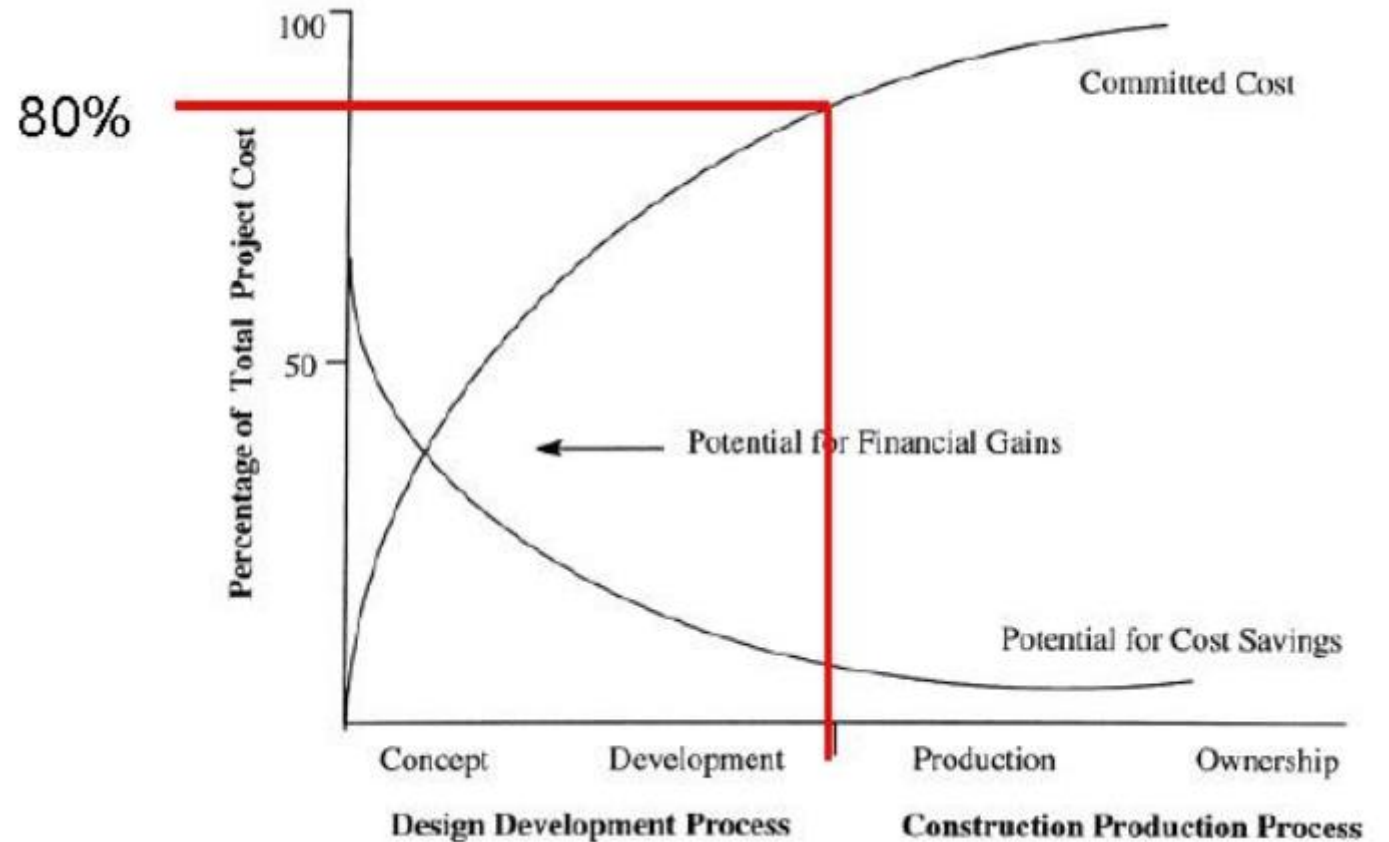


Can You Build It

- In Wednesday's lecture we talked all about process planning documents.
- These documents certainly play a determining factor in whether or not it is possible to build something or not.
- However, I want to go back further...

Can You Build It

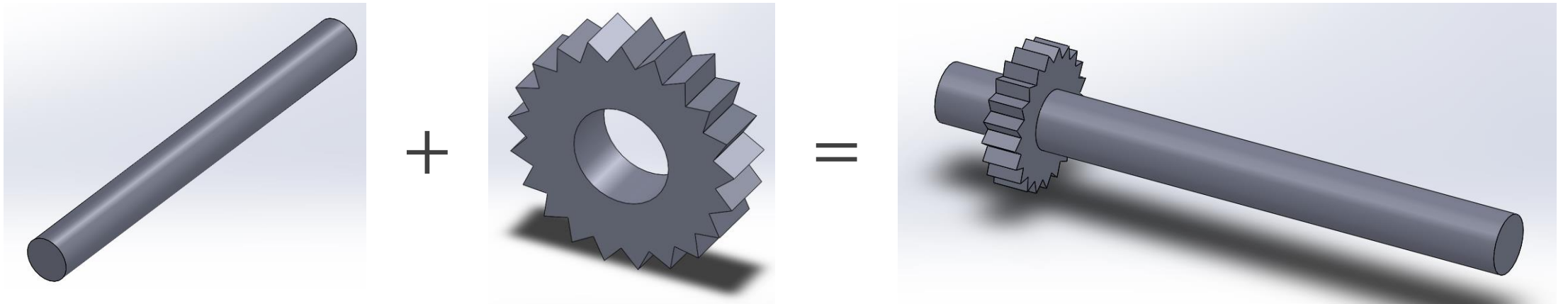
- Did you know that the 80% of project cost is tied up in the design process?
- Therefore, the more design issues we can prevent, the lower the committed cost.
- Lower committed cost = profit.
- Profit = You stay employed 😊



Barton, Love, Taylor, (2001).

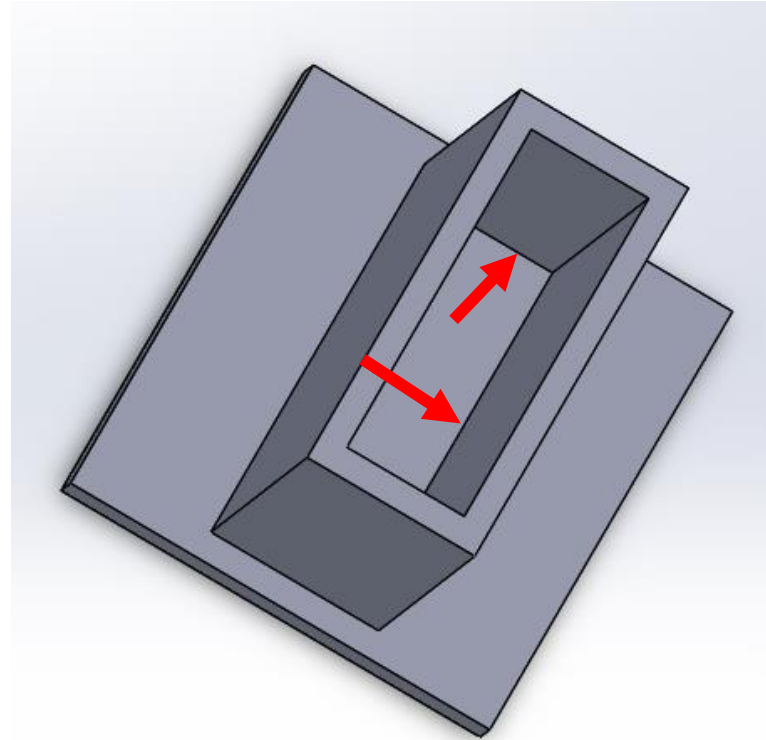
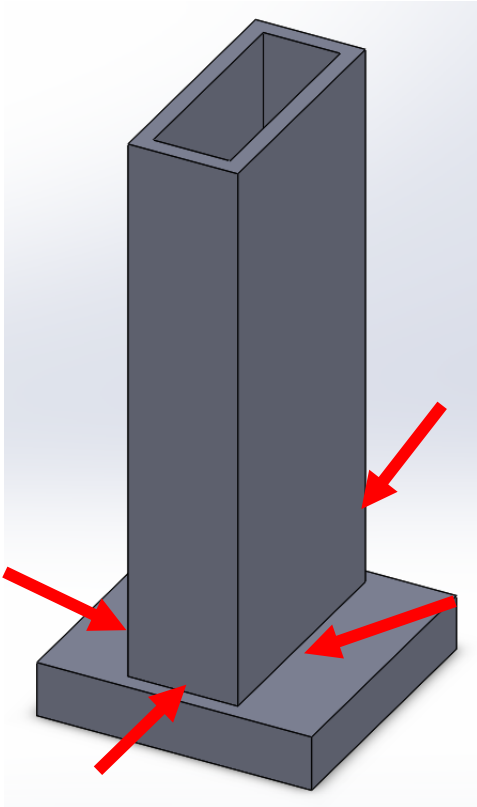
What is the issue here?

- Must always consider how we assembly components, how do they interact!



What is the issue here?

- Rectangular hollow section needs to be welded to backing plate. 5mm welds to be applied to inner and outer joining edges.



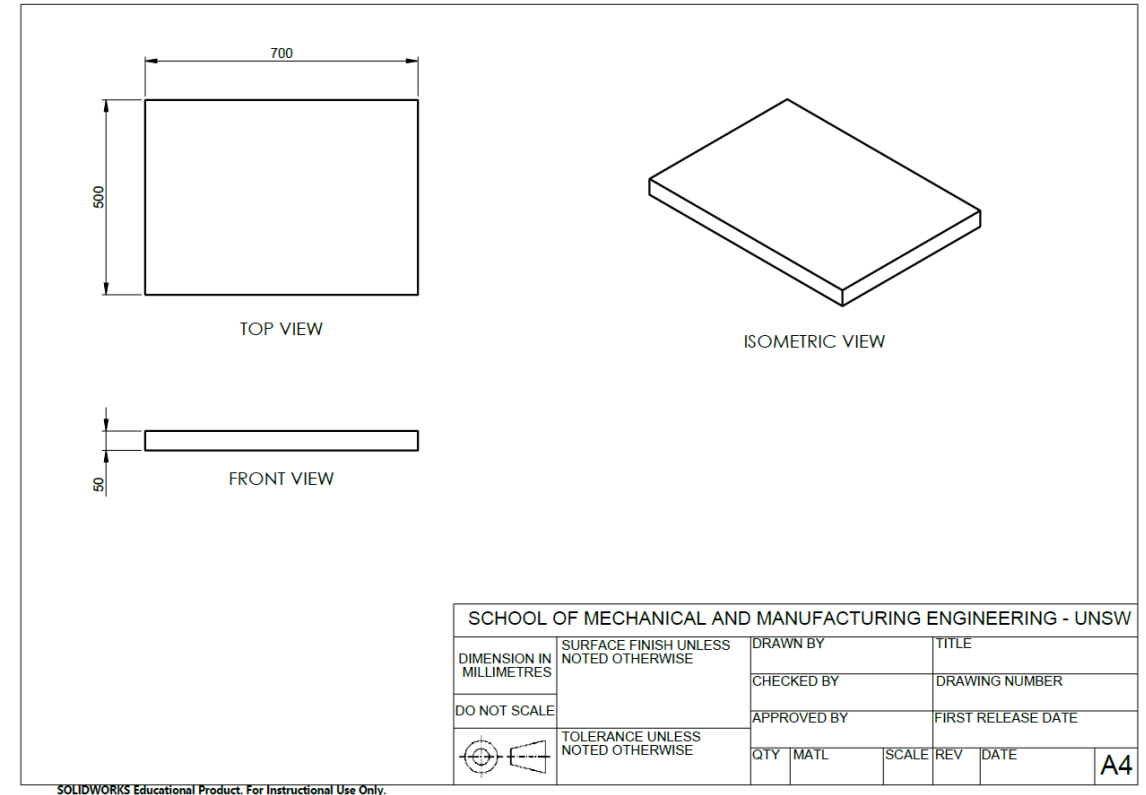
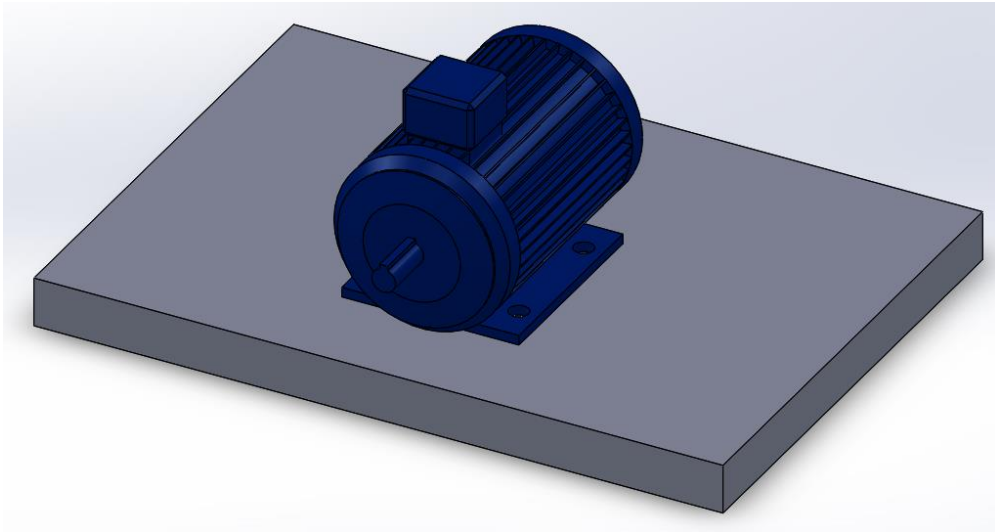
What is the issue here?

- Always think about tool access



What is the issue here?

- Motor is mounted to platform.



What is the issue here?

- Battery box protecting high voltage battery. Battery will power a range of devices.

