PTC® Live Global

CUST 315 - Additive Manufacturing: Solving "How Do You Do That"

Chris McKee
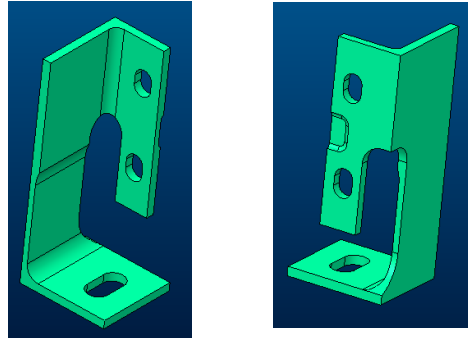Senior Mechanical Designer – COM DEV International

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The Challenge

- Management approaches you with the idea of evaluating the Companies product offerings for testing the waters of Additive Manufacturing

- What should you consider when selecting the design that will carry the "Wow Factor" to satisfy Managements request

- Building that design for success

The Most Common Mistake

- "Just" take this design and "Print It"

- They say you can Print Anything

- I will just send the supplier this file and show that we can get it back the next day ready to use
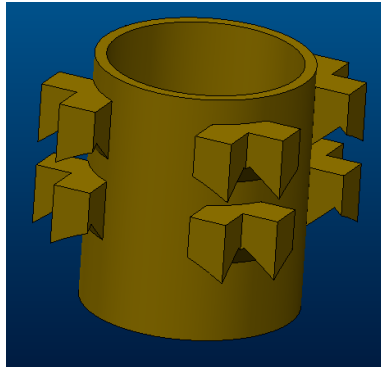
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What Makes a Good 3D Printed Part

- How do you manufacture the part today?

- What does it cost to produce your part?

- What Material is it?

- Think about:
  - What is the function of the part?
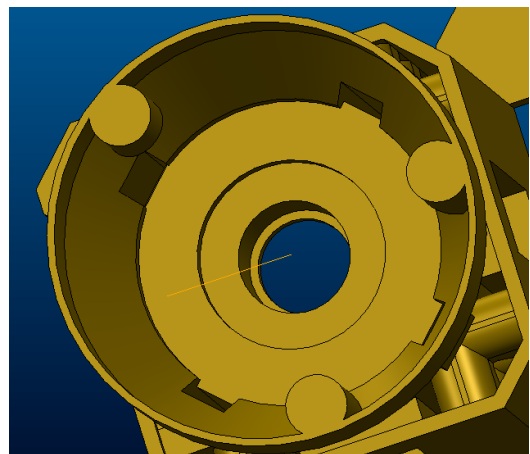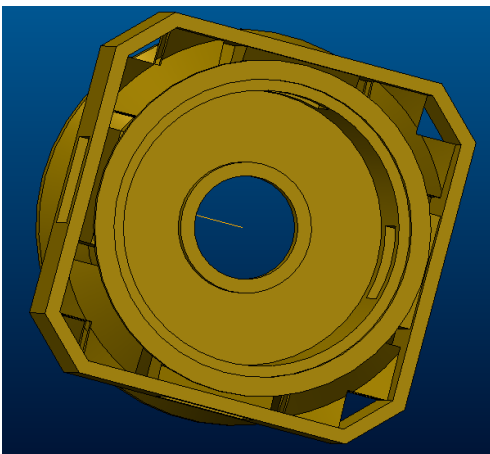 - What do you want to gain from using 3D Printing?

- Now…Start Over!!!

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Start with what you know
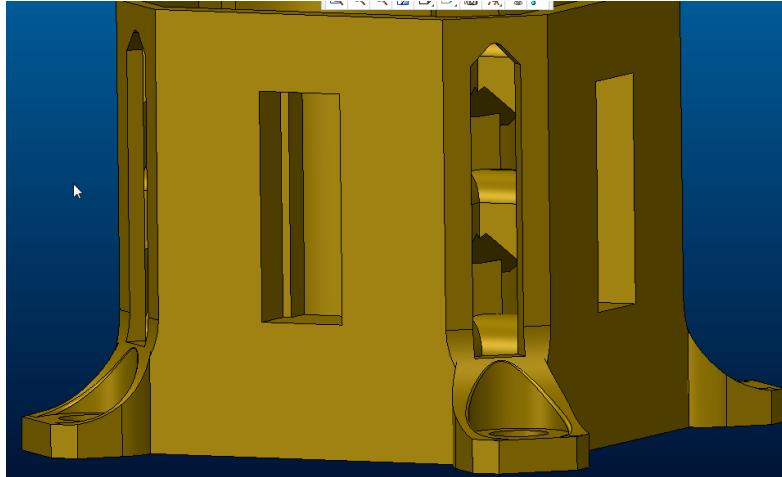
Build on What You Know and Add Only What You Need

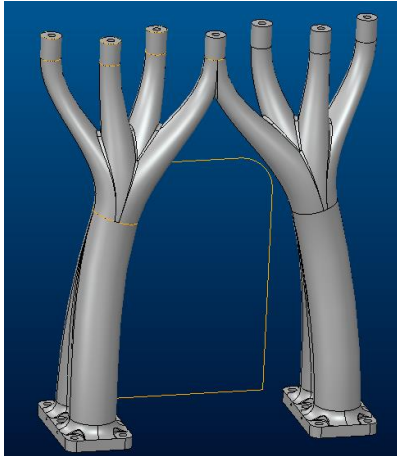Evaluate How you can change your Design to incorporate Support Structure

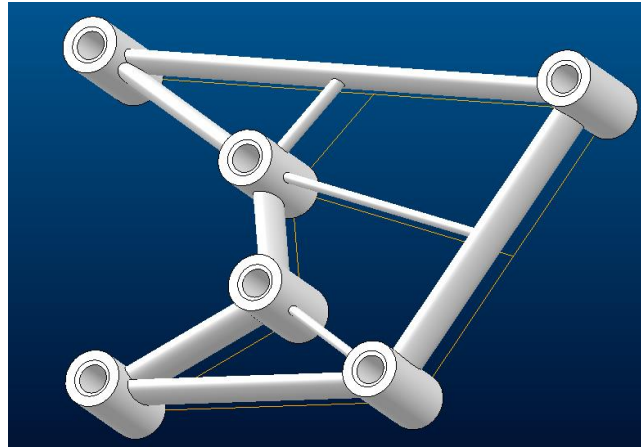Use Merge Inheritance to create your Final Machined Design
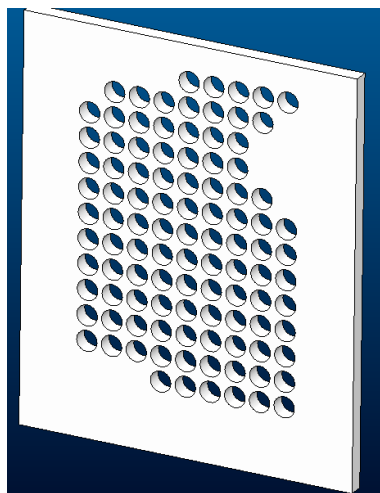
Structural Bracket

Structural Bracket

Build Structural Elements

Use Fill Pattern to Weight Relief

Conclusion

- Know your Managements Expectations

- Design with an Artistic Feel

- Don't follow status quo – remember Complexity isn't an issue with 3D Printing

Questions?

Thank You

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- Your feedback is valuable

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