

Compelling 2D Sections, Details, and Auxiliary Views from AutoCAD® 3D Models

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About the speaker

- J. C. Malitzke is president of Digital JC CAD Services, Inc., a training and consulting company.
- Former Professor and Department chair - Community College in the greater Chicago area.
- Managed and taught for the college's Autodesk Authorized Training Center.
- Using and teaching Autodesk, Inc., products for 30+ years.
- Co-author of AutoCAD and Its Applications- Comprehensive
- 23+ years presenting at Autodesk University.
- Autodesk University Top Presenter Award winner
- Autodesk Certified Professional and Instructor
- Contact J. C. at cadinfo@digitaljccad.com.

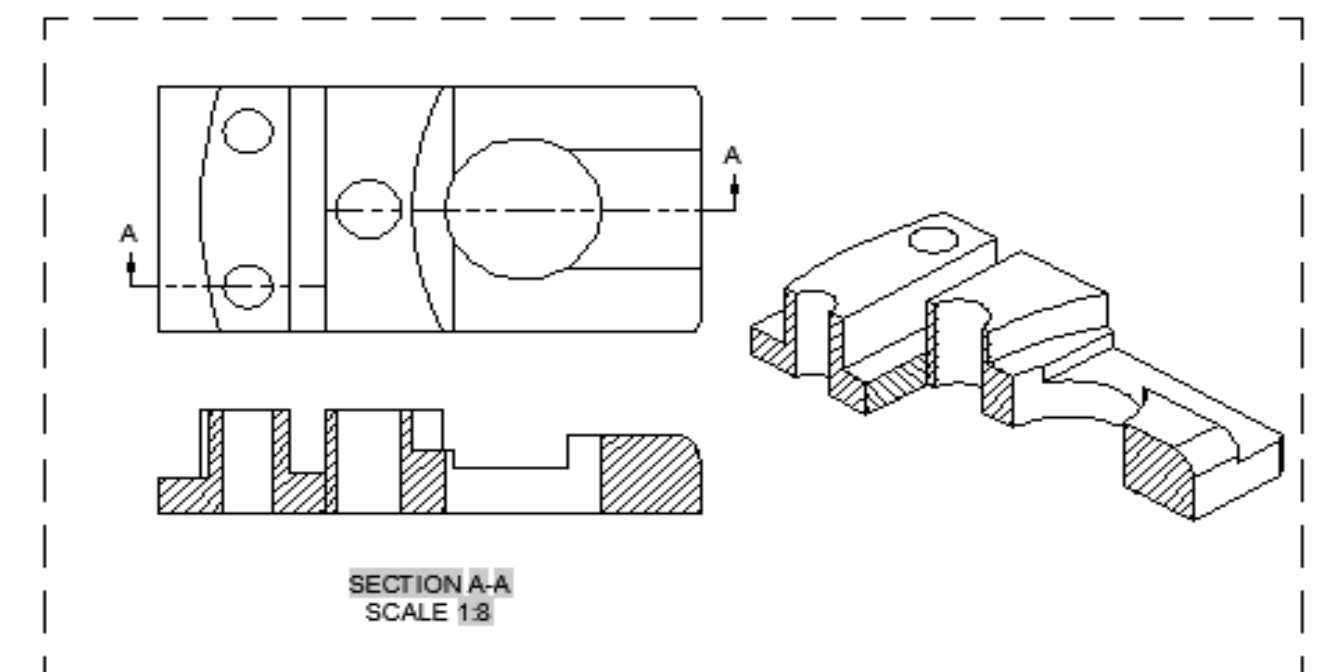
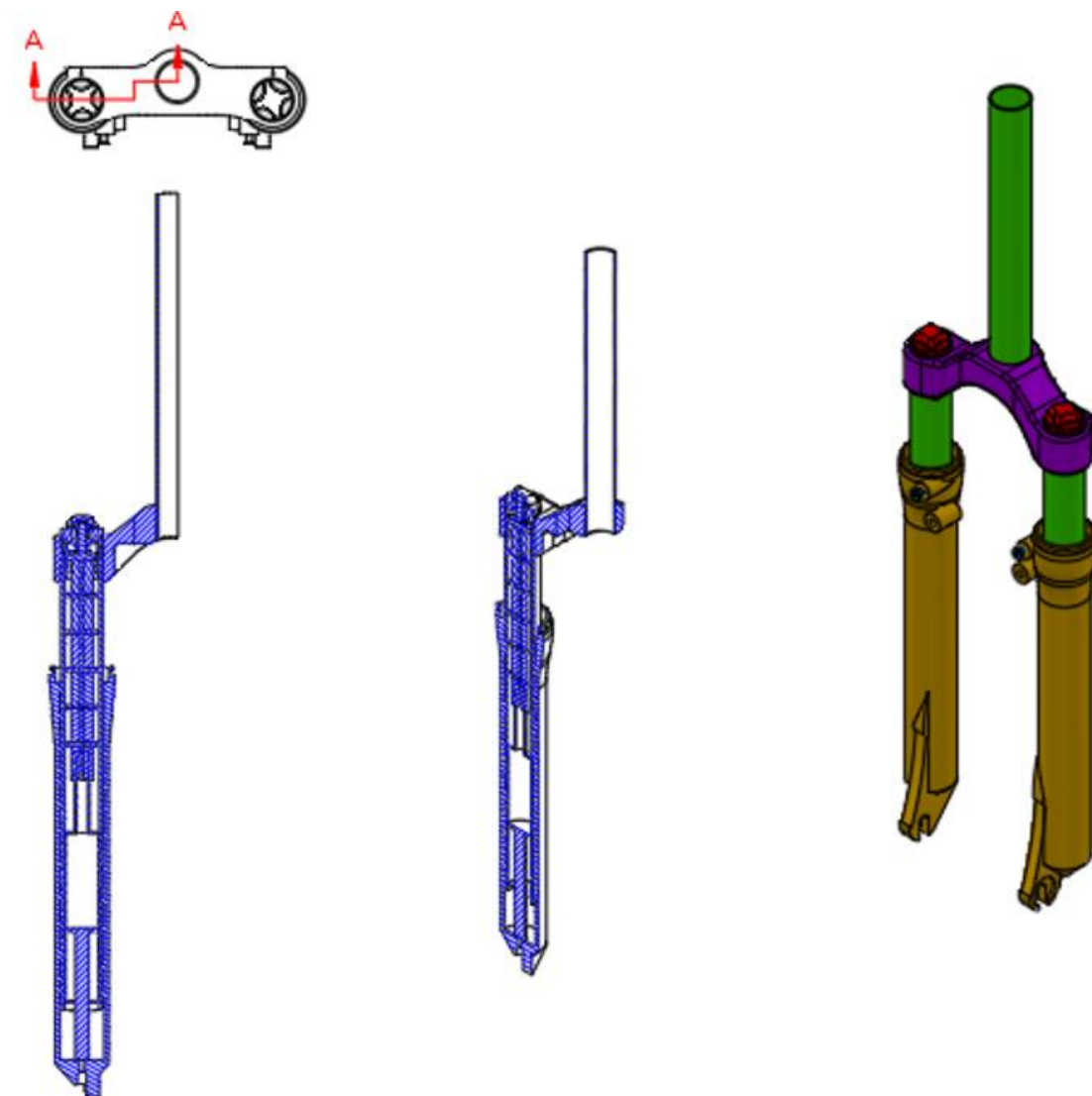
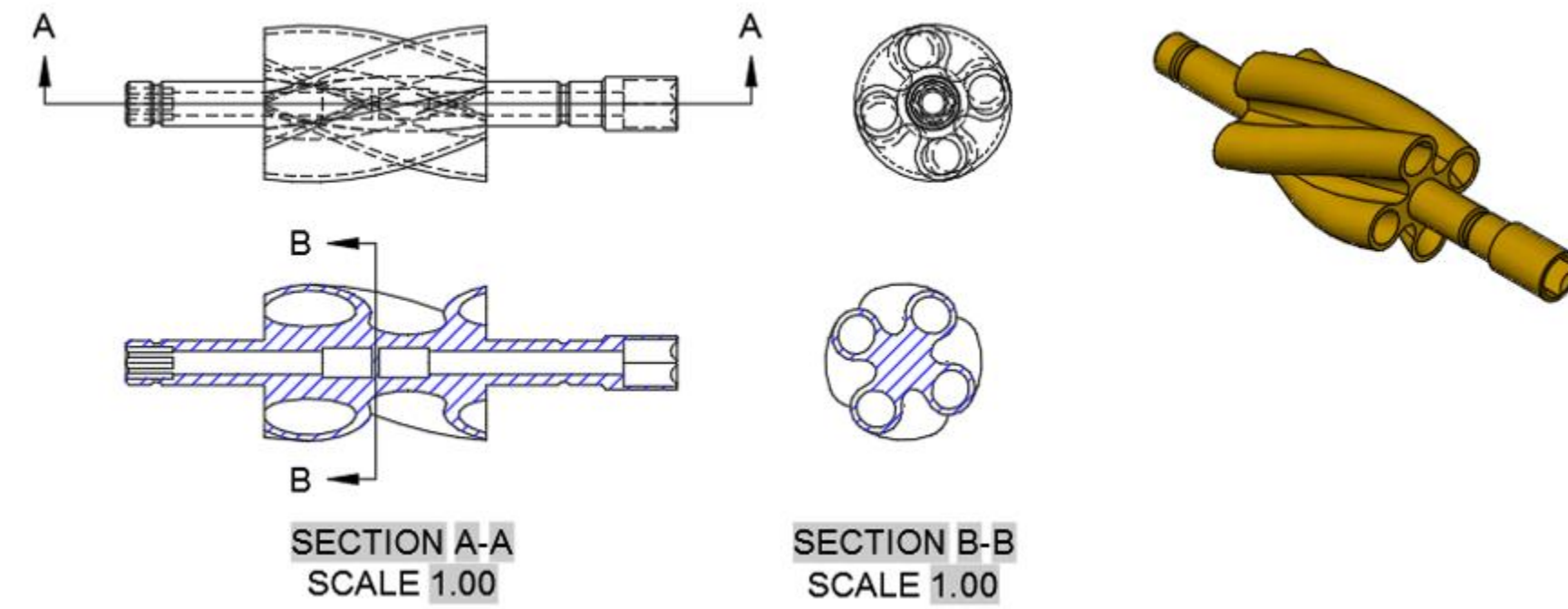
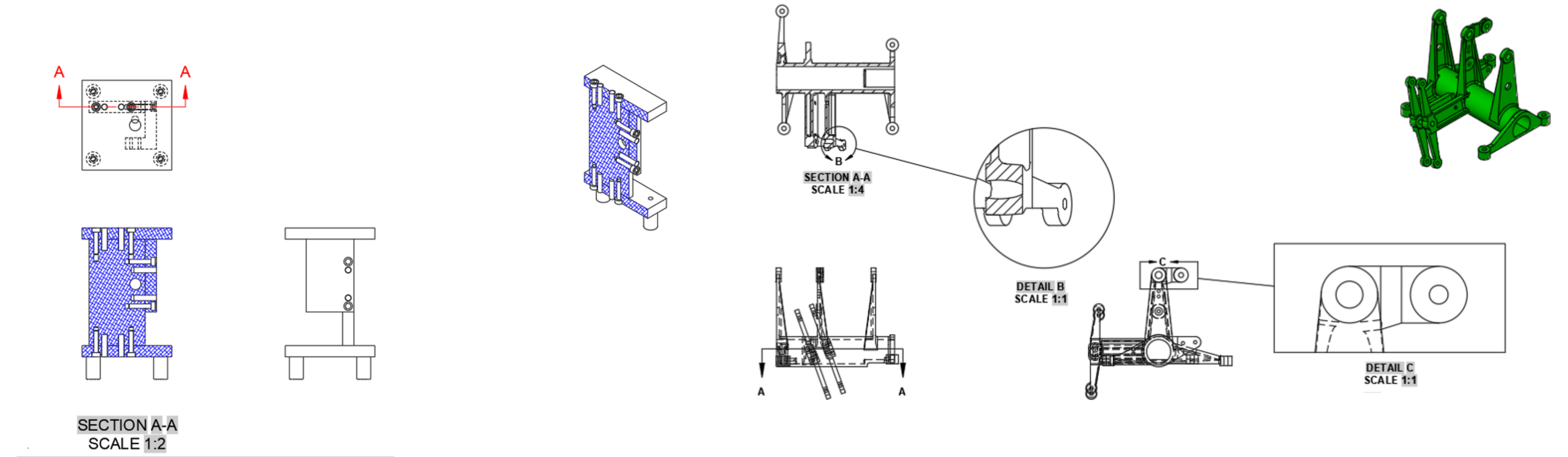
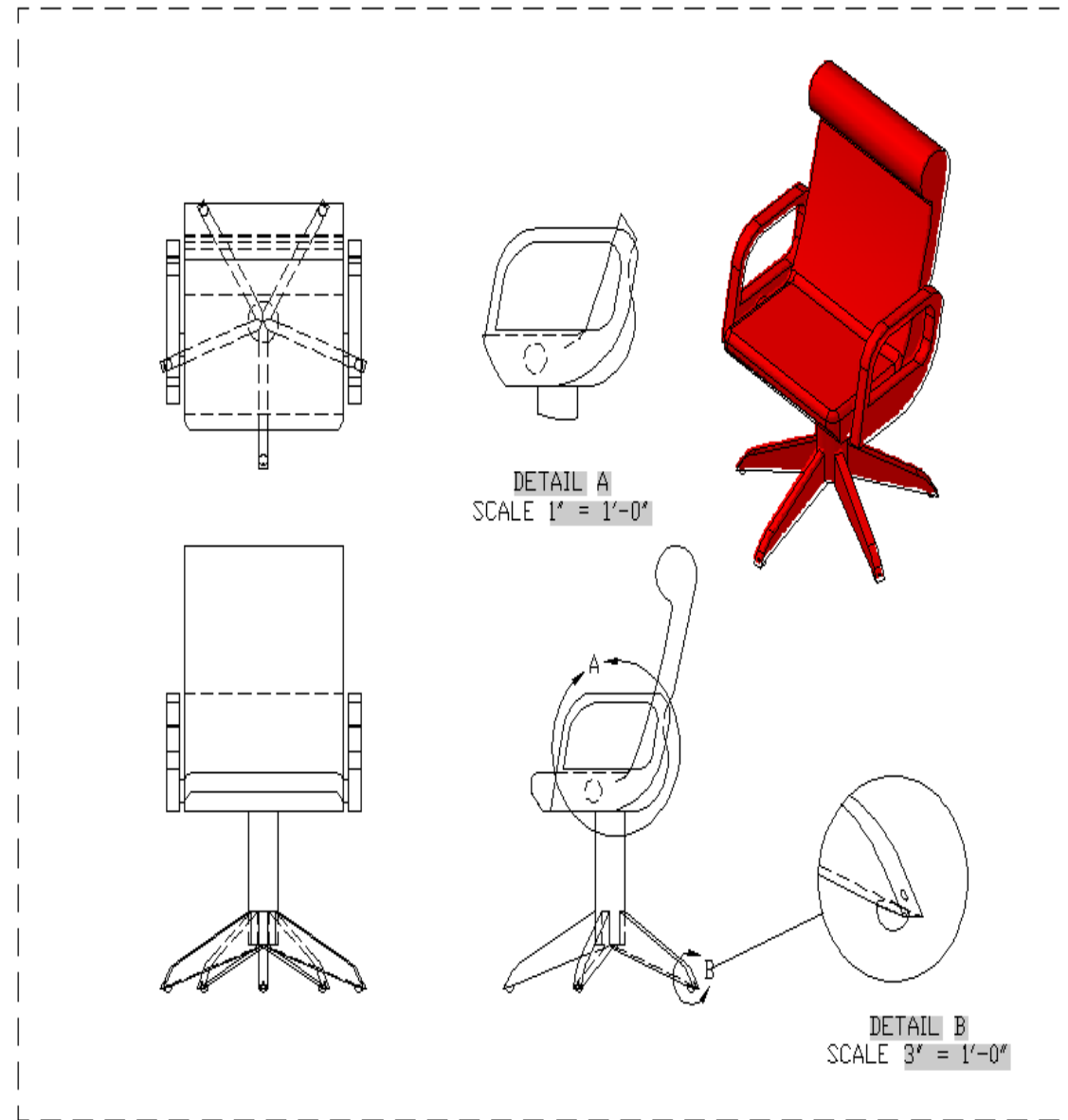
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Welcome

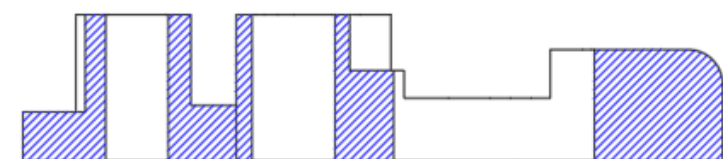
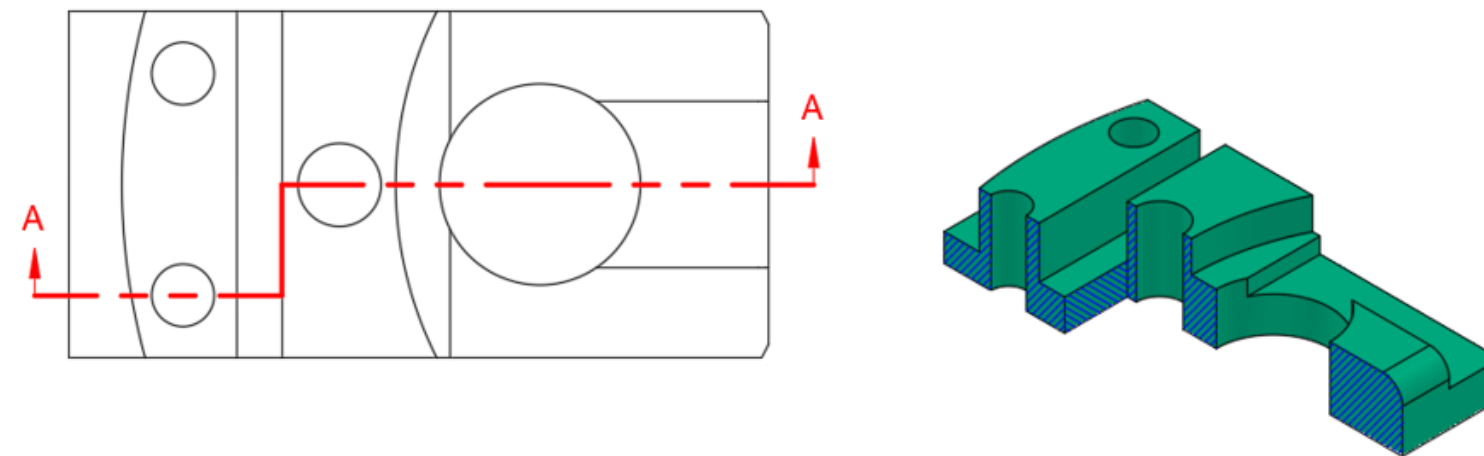
House Keeping Tasks

1. Make sure you have downloaded the data files you will need for this class from the AU website and put in a folder to save back to.
2. Have the associated paper downloaded and ready to use during the class as either a printed copy or via a PDF reader.
3. Launch your AutoCAD. Any version should do.
4. Get something to drink.
5. Have something to take notes on.
6. Read over the handout.
7. Have a great class!

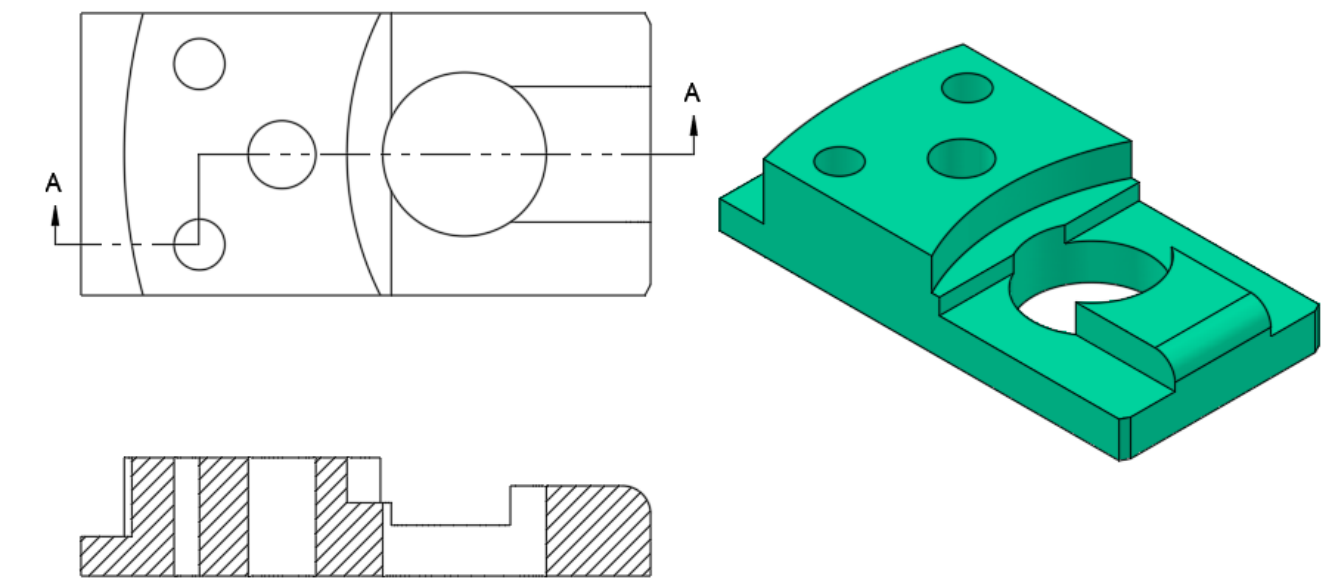
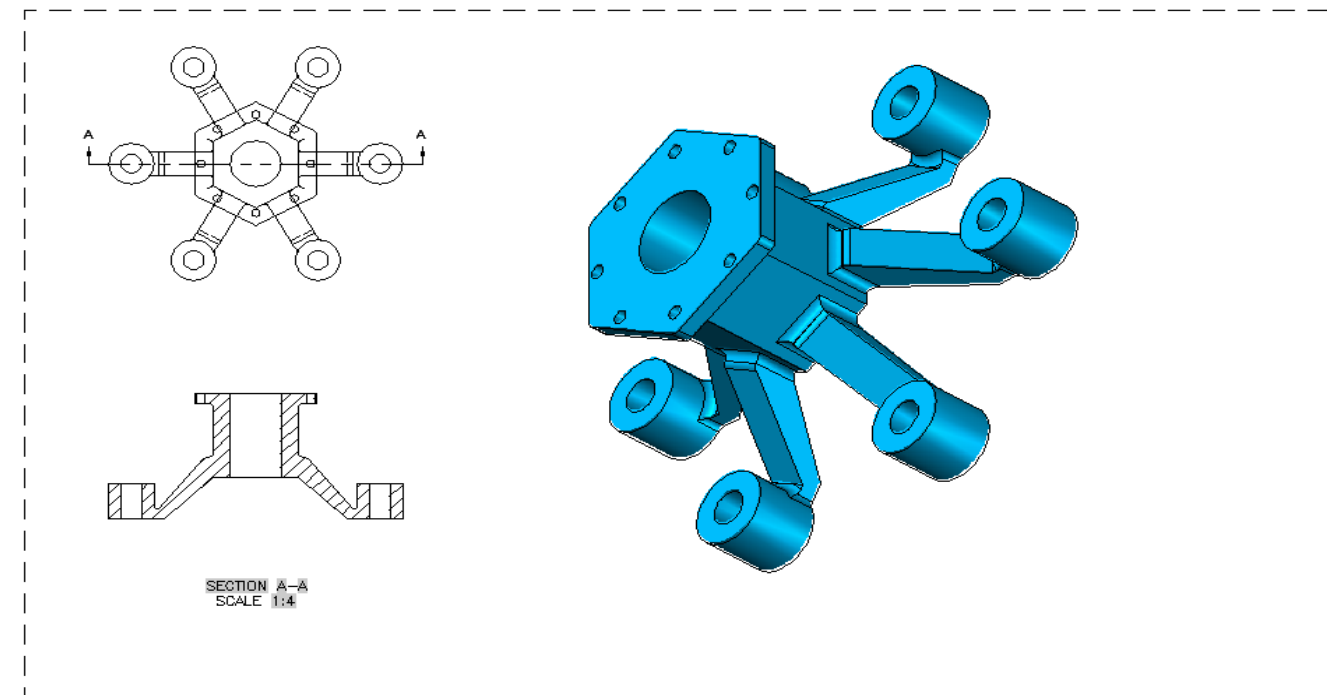
Goals



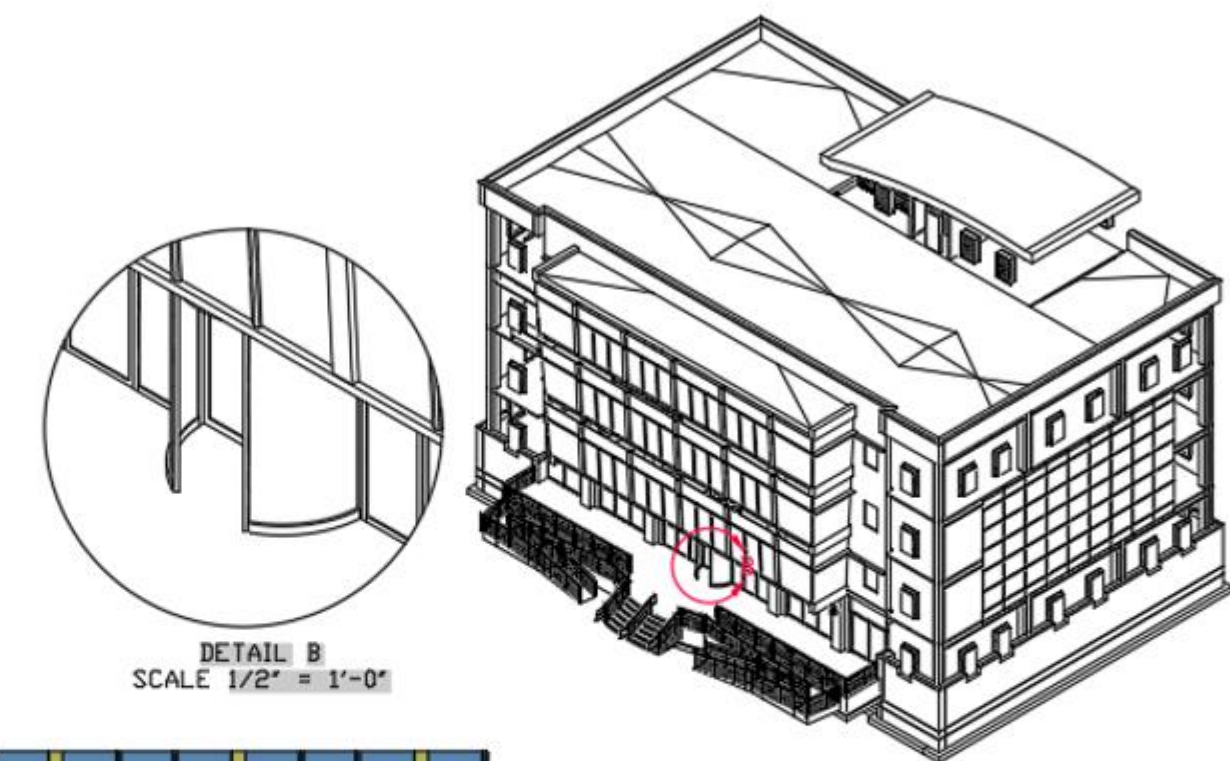
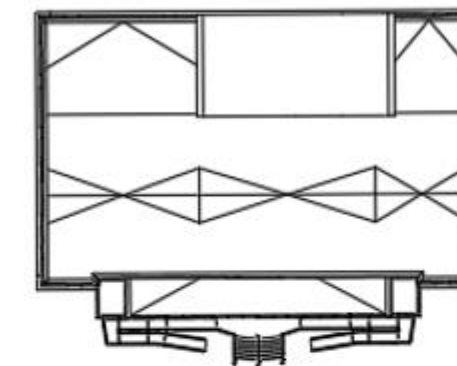
Goals



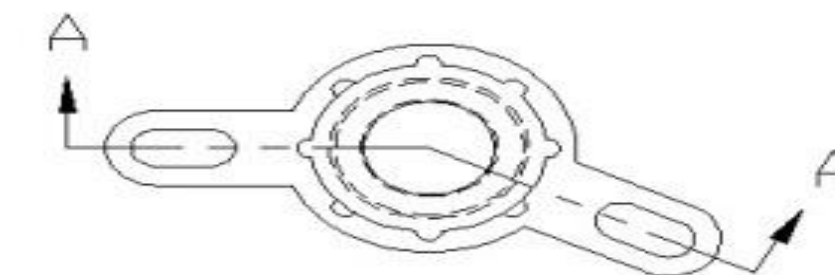
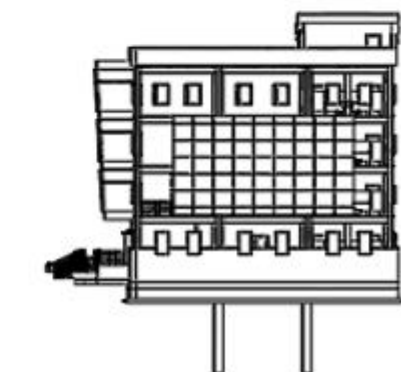
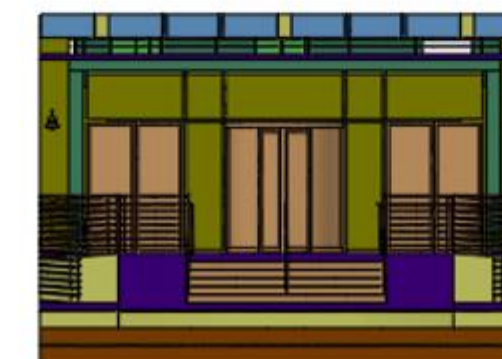
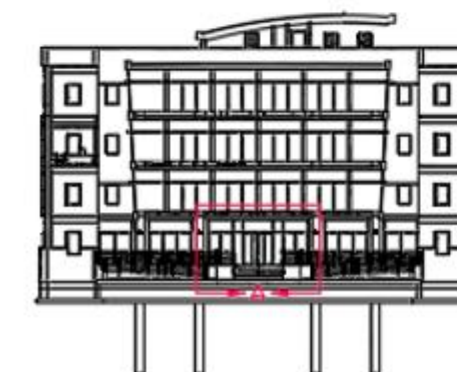
SECTION A-A
SCALE 1:8



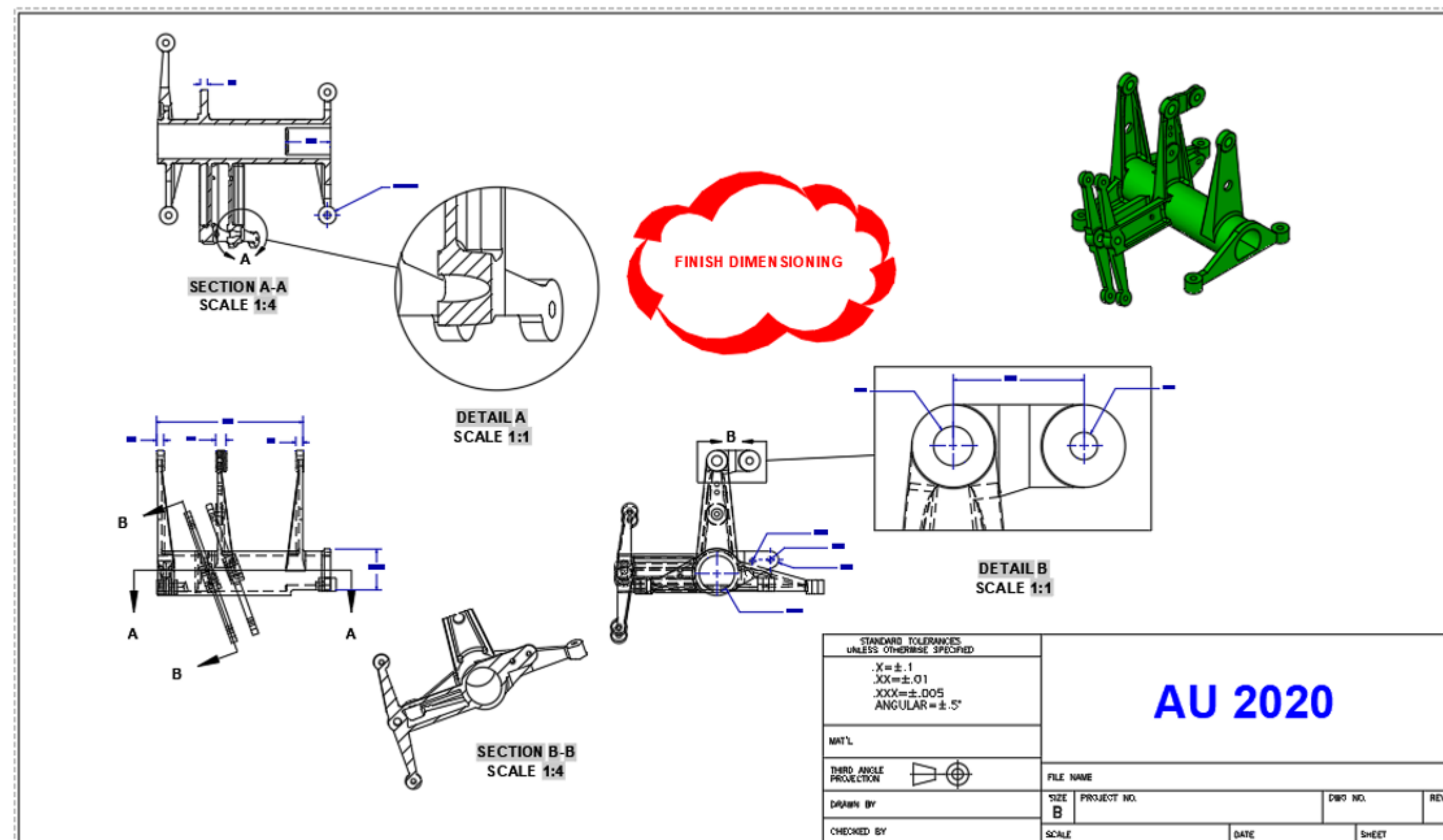
SECTION A-A
SCALE 1:8




DETAIL B
SCALE 1/2" = 1'-0"



SECTION A-A
SCALE 1:4



STANDARD TOLERANCES UNLESS OTHERWISE SPECIFIED	AU 2020			
.X = ± .1 .XX = ± .01 .XXX = ± .005 ANGULAR = ± .5°				
MAT'L				
THIRD ANGLE PROJECTION 				
FILE NAME	SIZE B	PROJECT NO.	DWG NO.	REV
DRAWN BY	SCALE		DATE	SHEET
CHECKED BY				

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Objectives

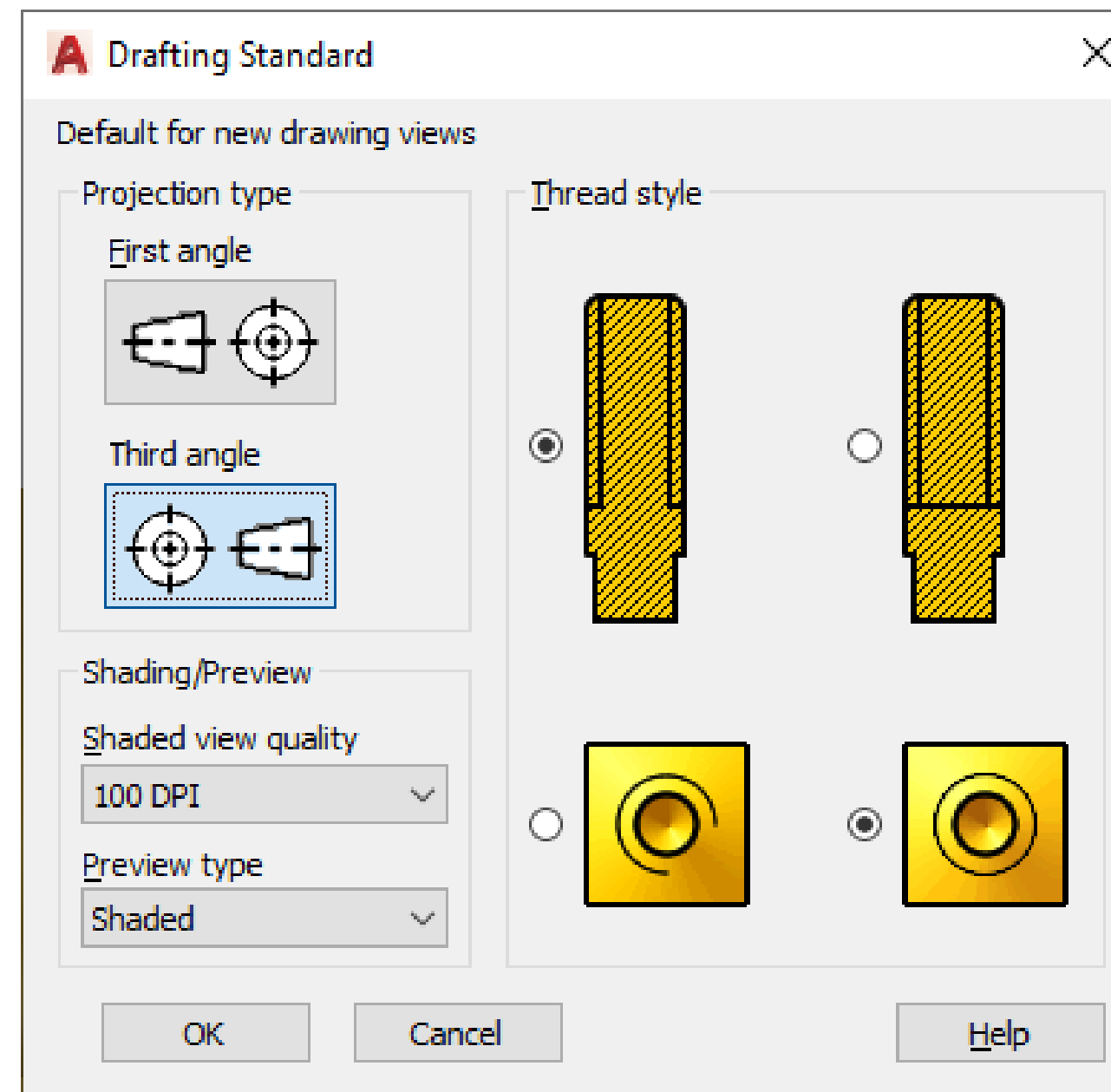
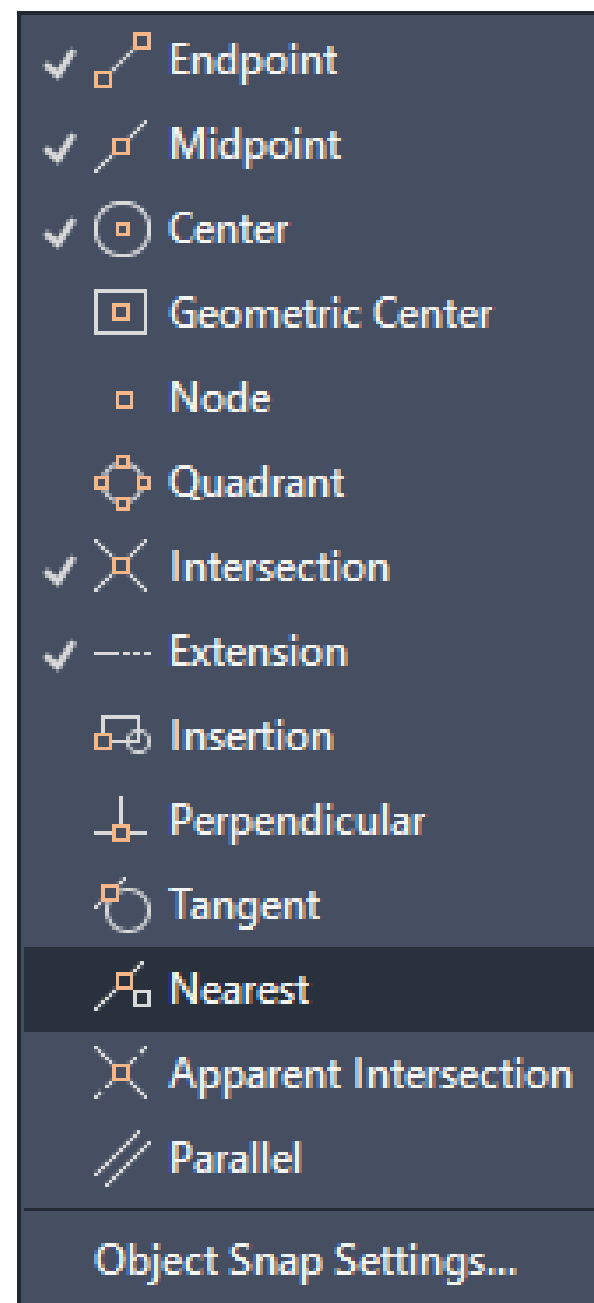
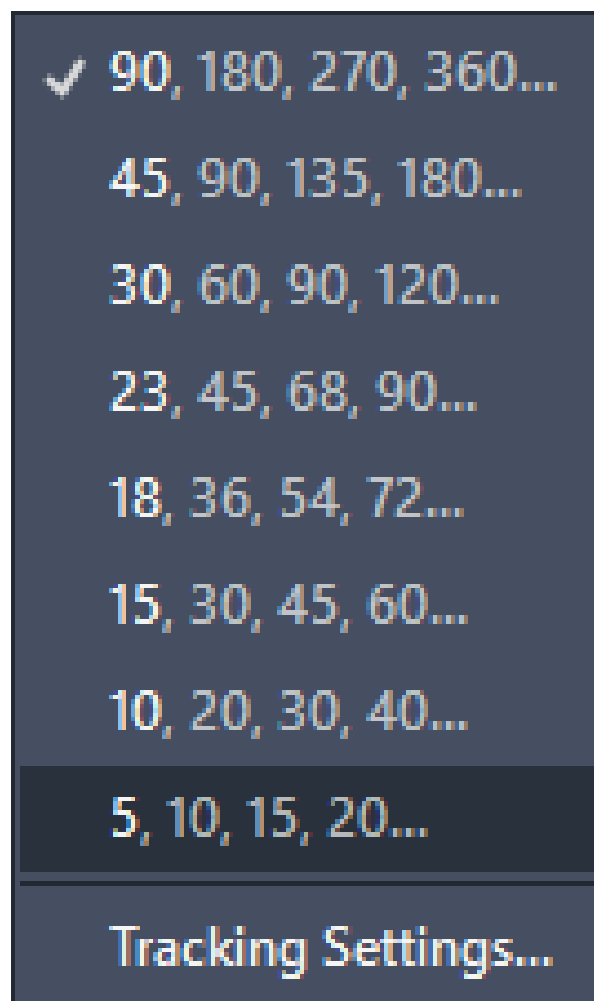
- Create drawing views of AutoCAD 3D models for drawing 2D sections and details
- Edit 3D models and their 2D associated drawing views
- Create undocumented auxiliary views from AutoCAD 3D models
- Export drawing views to create 2D, sectional, multiview drawings in model space

Compelling 2D Sections, Details, and Auxiliary Views from AutoCAD® 3D Models

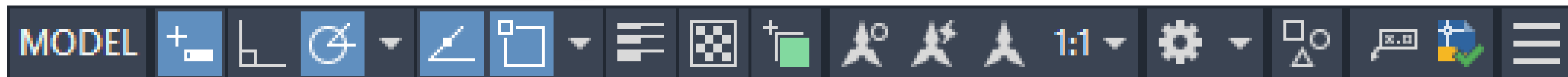
What is the one thing that we must learn when 3D Modeling in AutoCAD?

Techniques

Set Your Tools



VIEWSTD



Compelling 2D Sections, Details, and Auxiliary Views from AutoCAD® 3D Models

How am going to teach this class.....



- **Lecture.** Short overview of topic.
- **Demonstration.** Short demo on topic. Do not follow along. Do not touch your mouse!
- **Activity.** Your turn to work on the exercises. This is where YOU stop the video and work on the exercises. An ACTIVITY slide will appear in the video.

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Let's get started.....

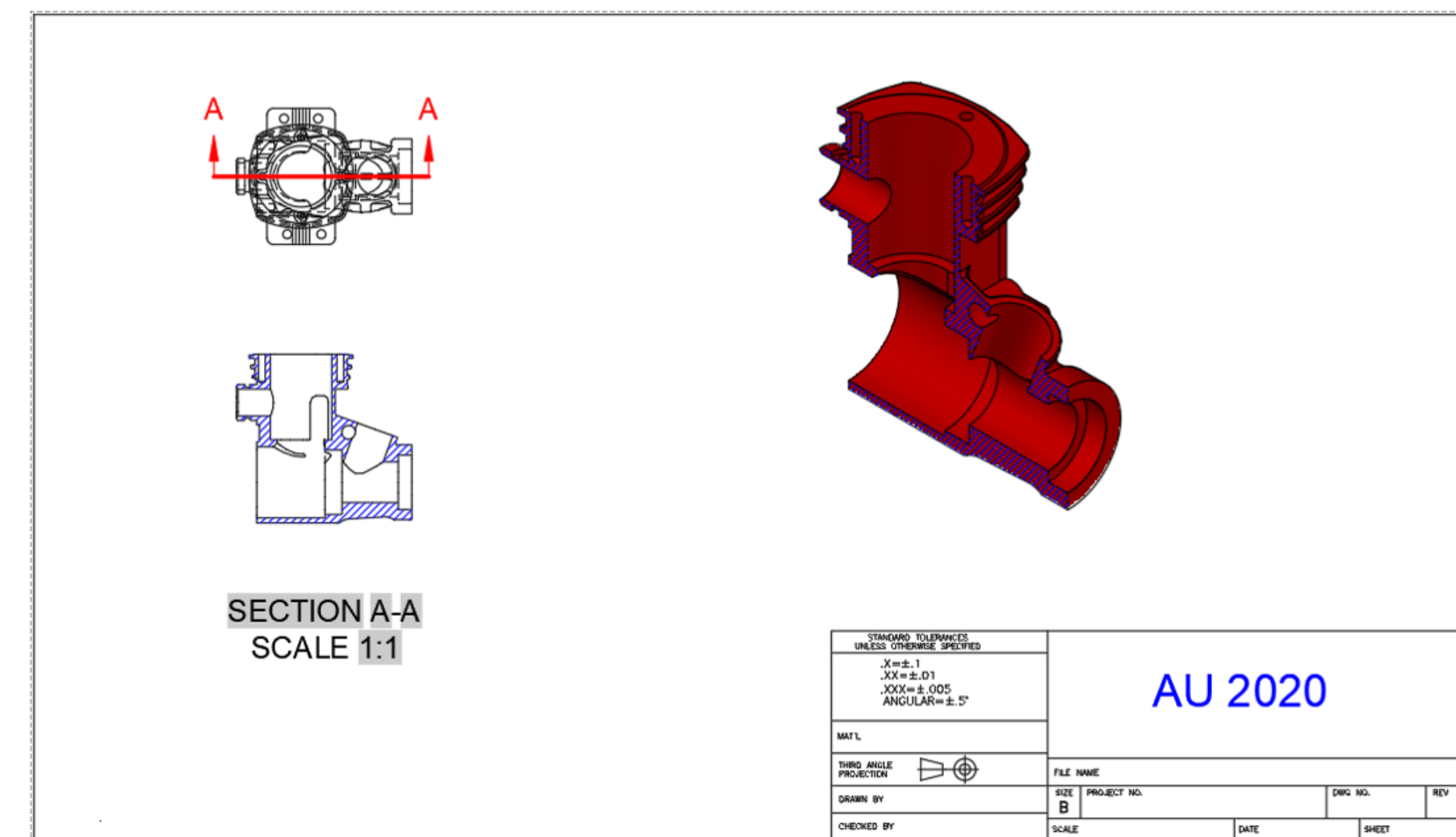
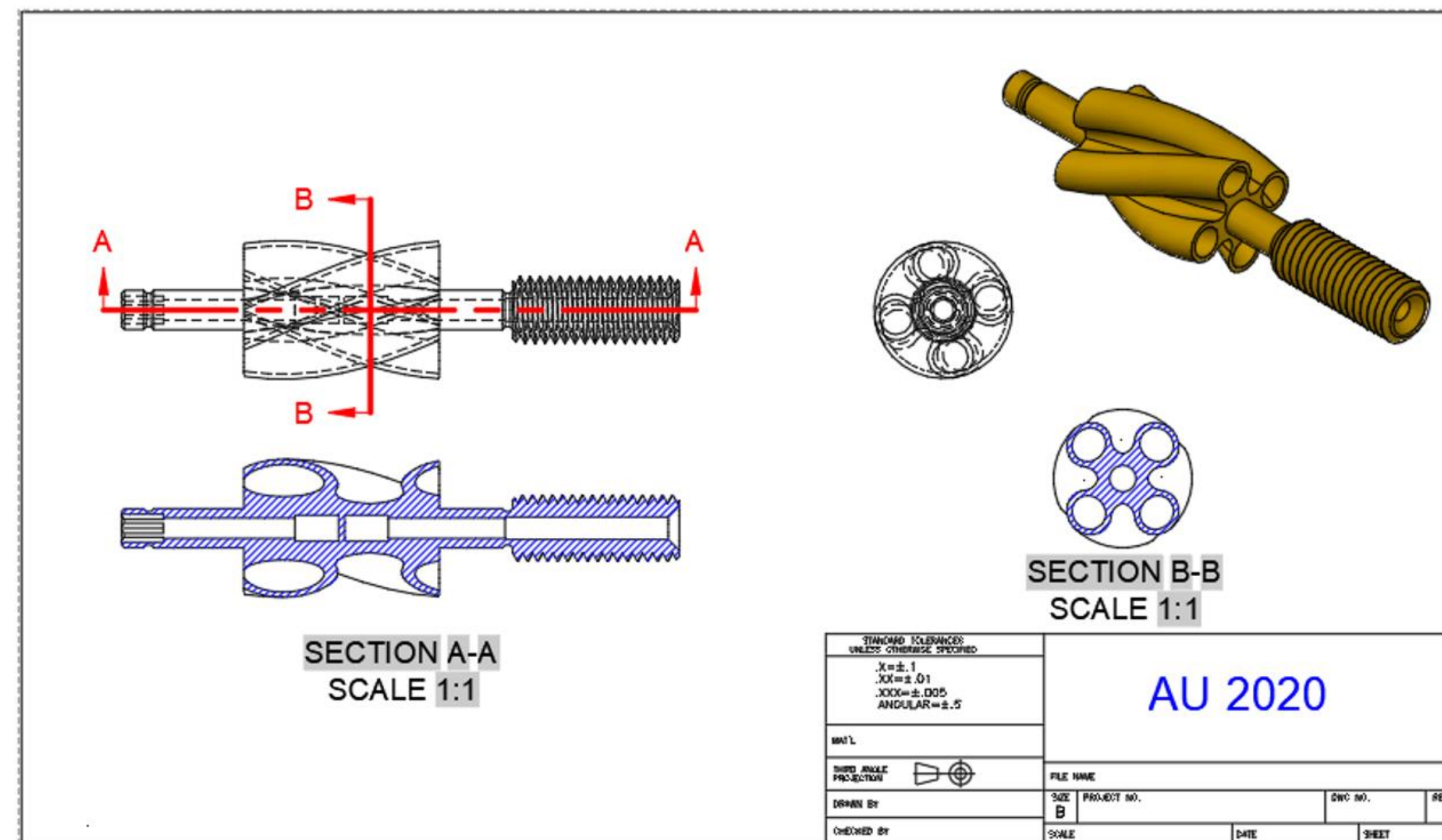
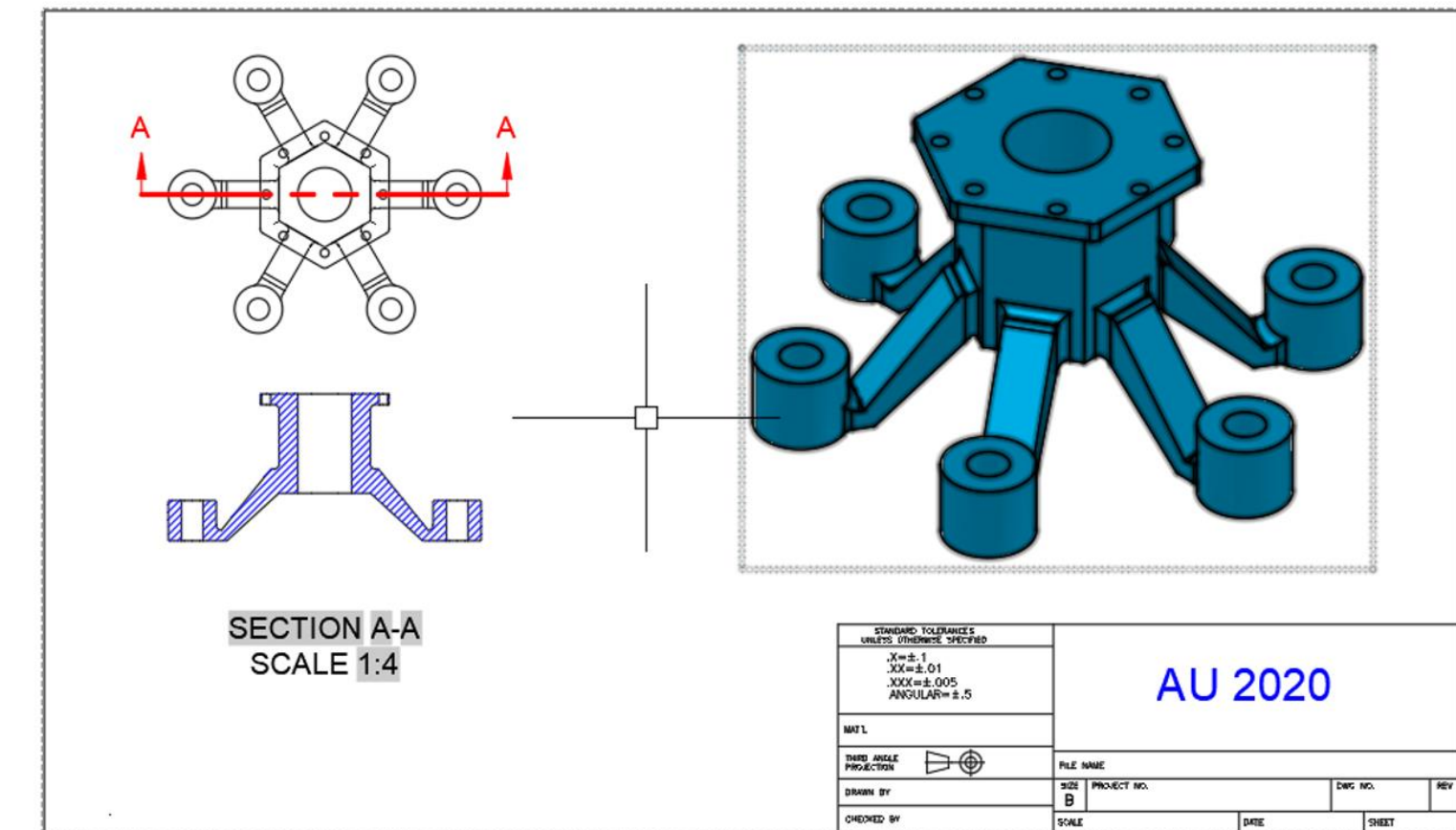
- Follow along in the handout.



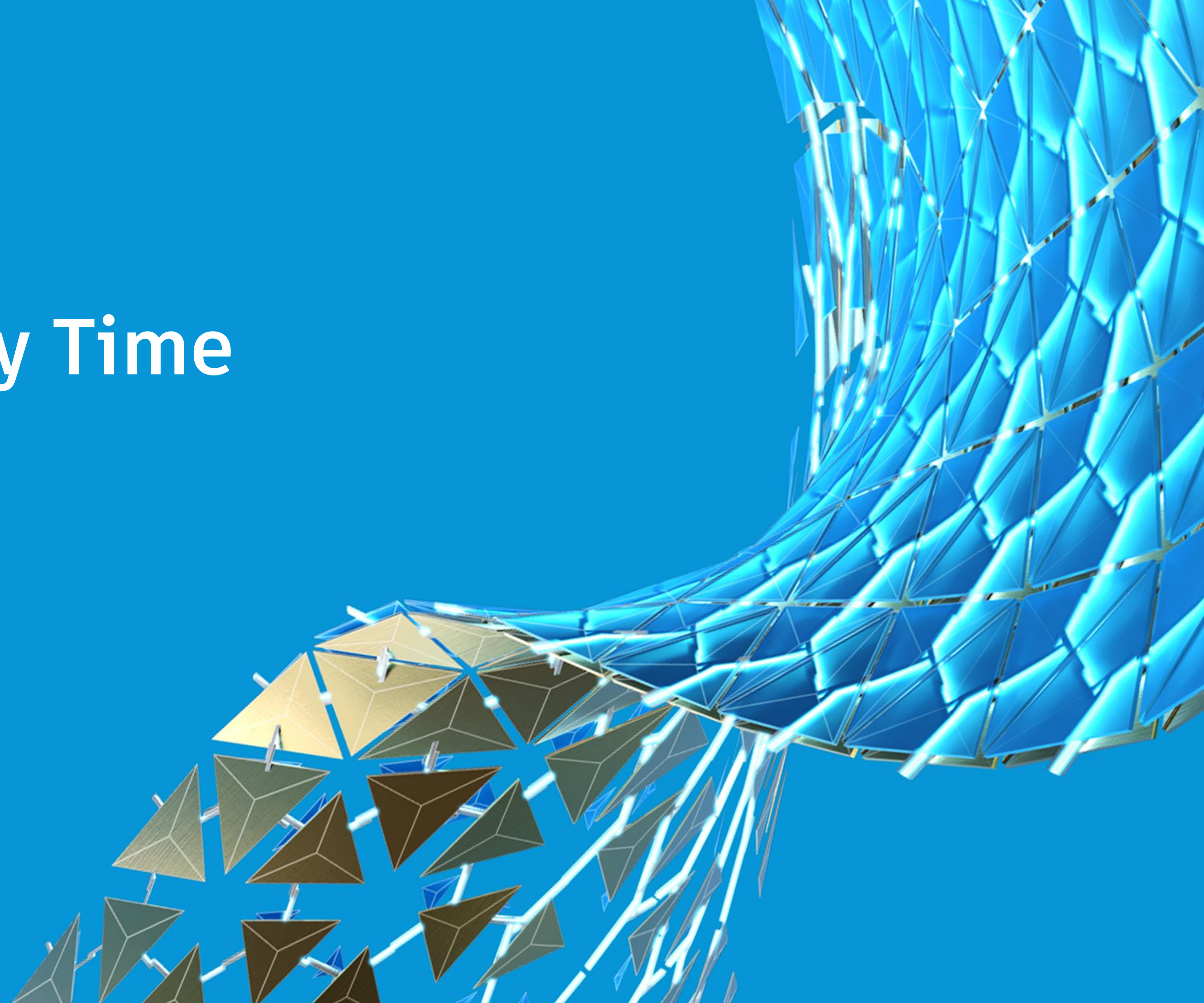
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Let's get started.....

- Create Full Sectional Views.....



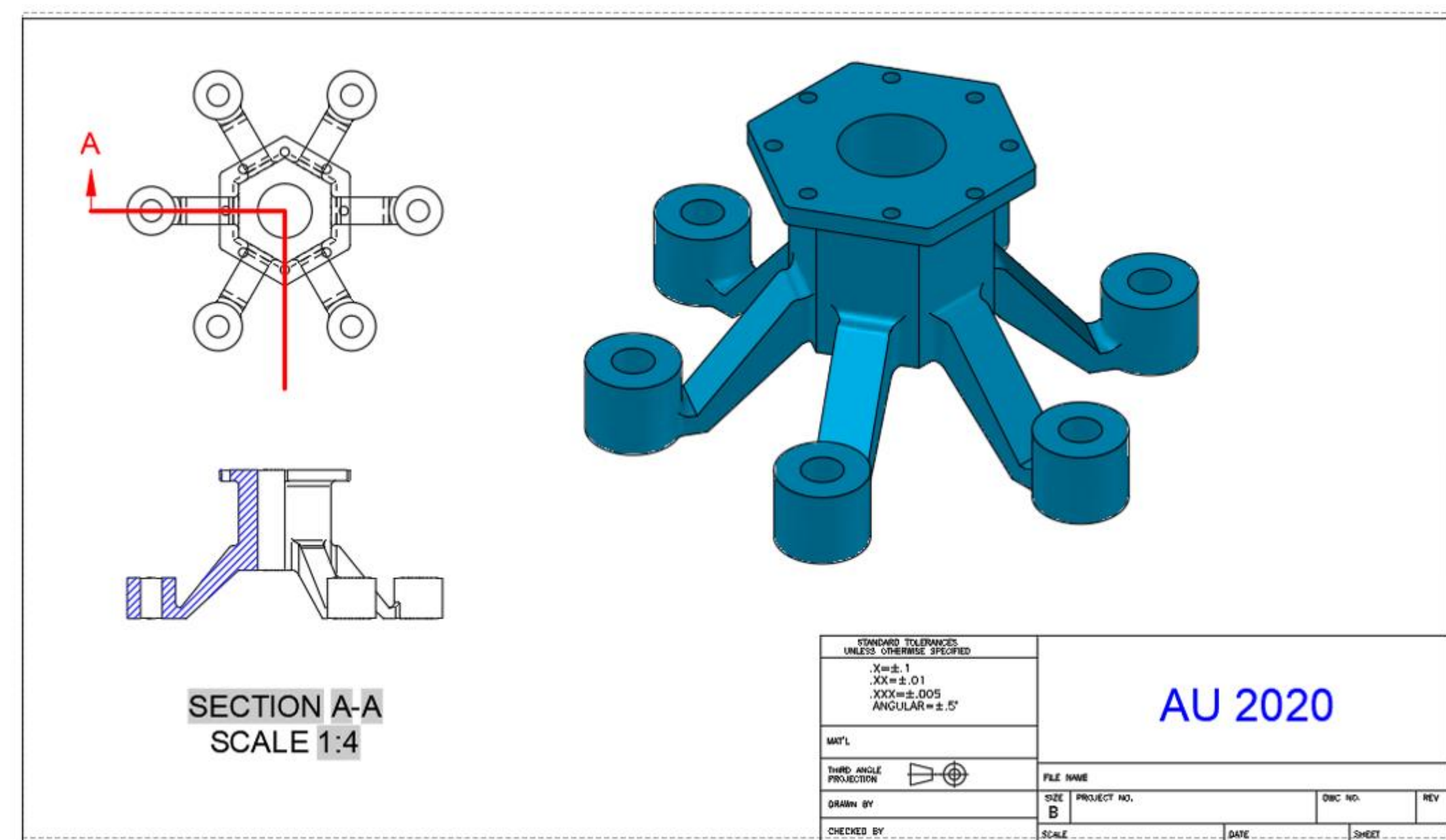
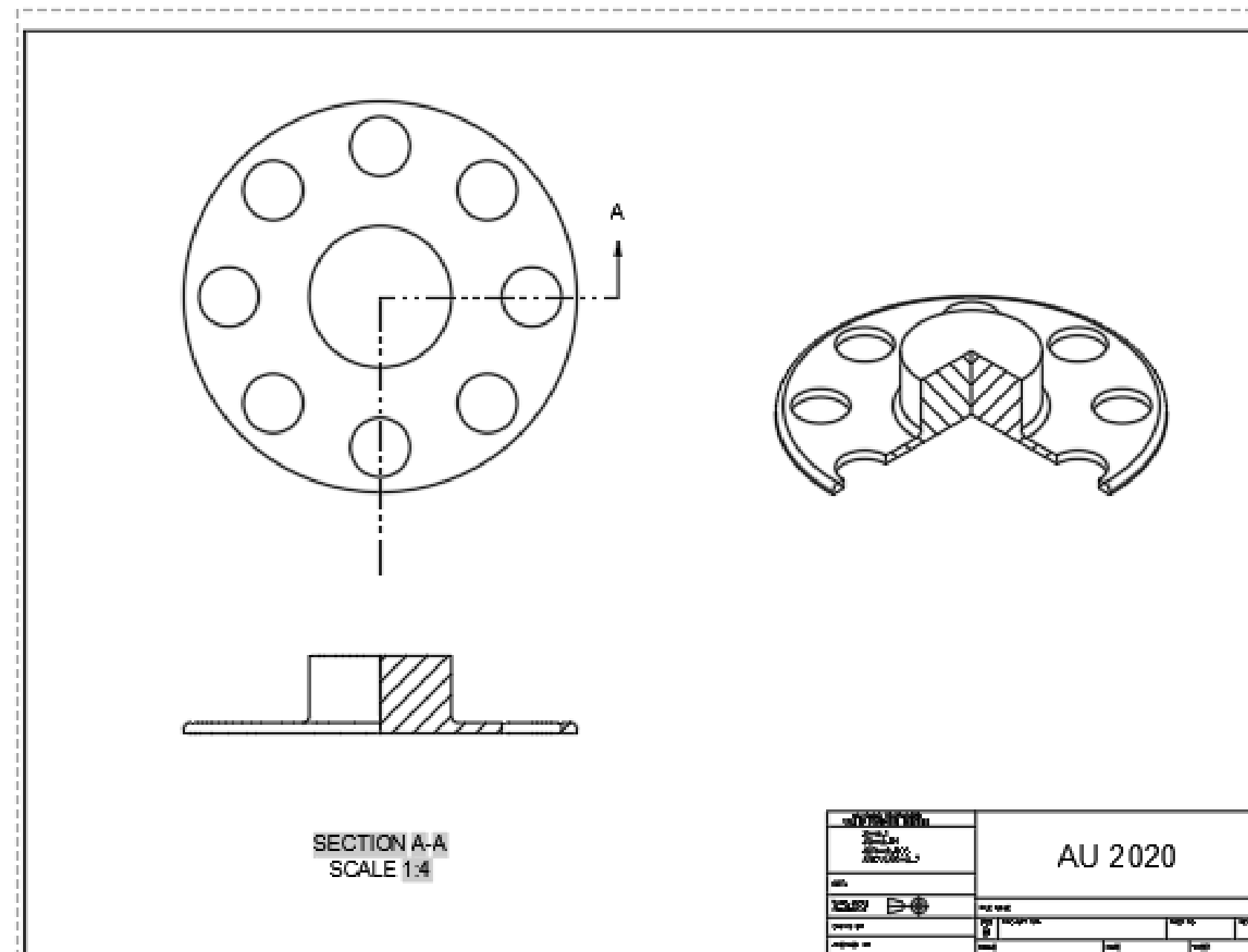
Activity Time



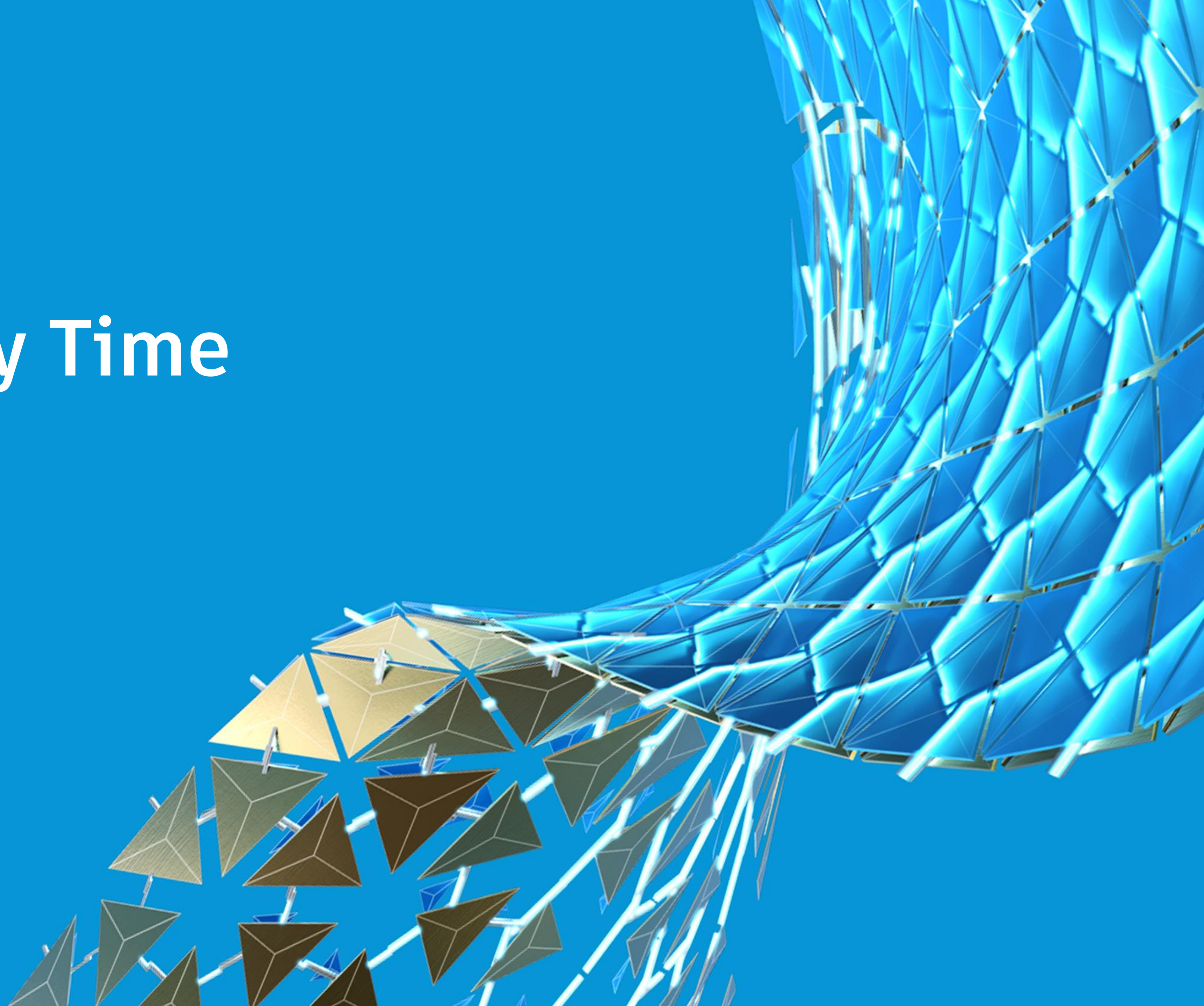
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Let's get started.....

- Create Half Sectional Views.....



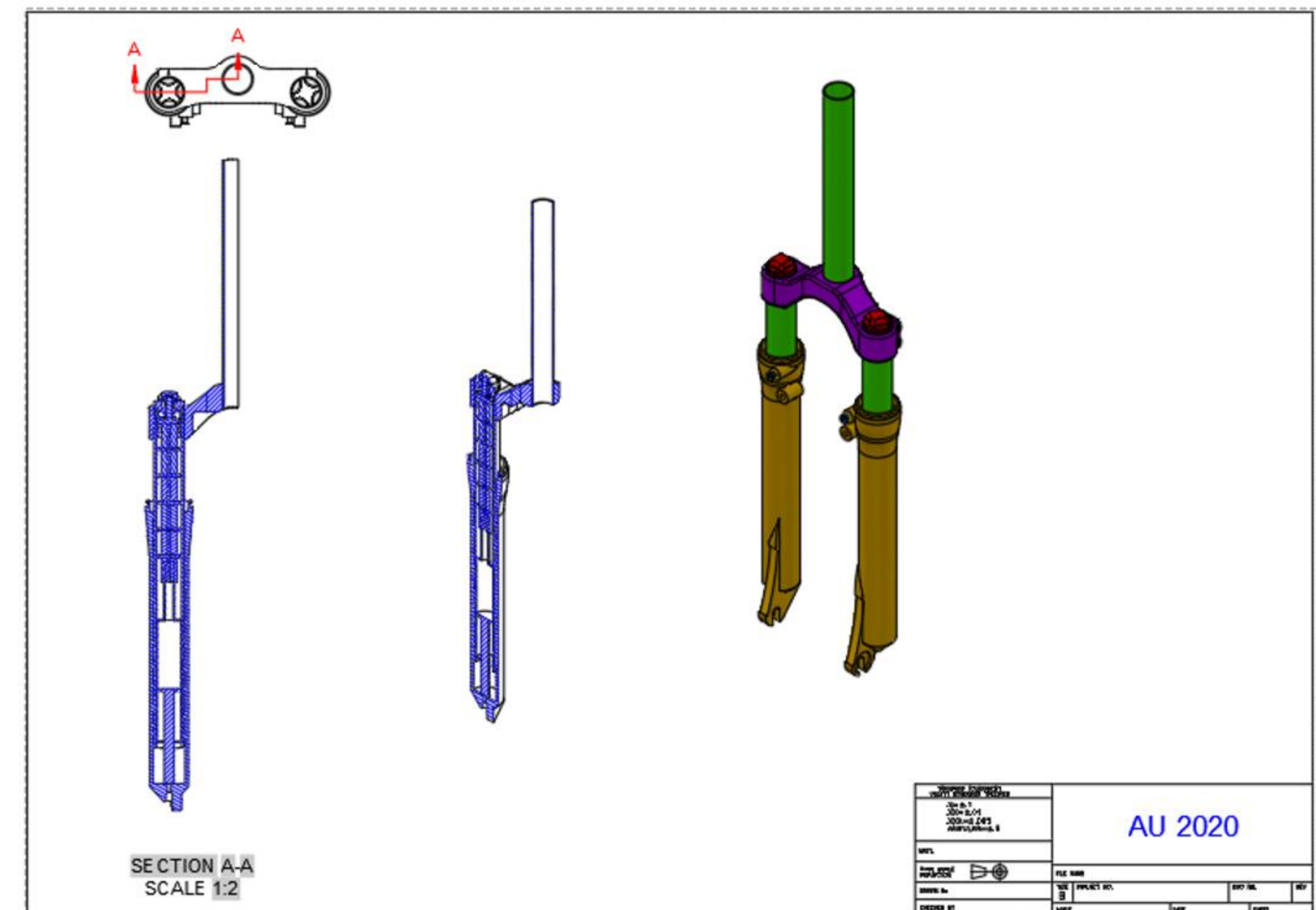
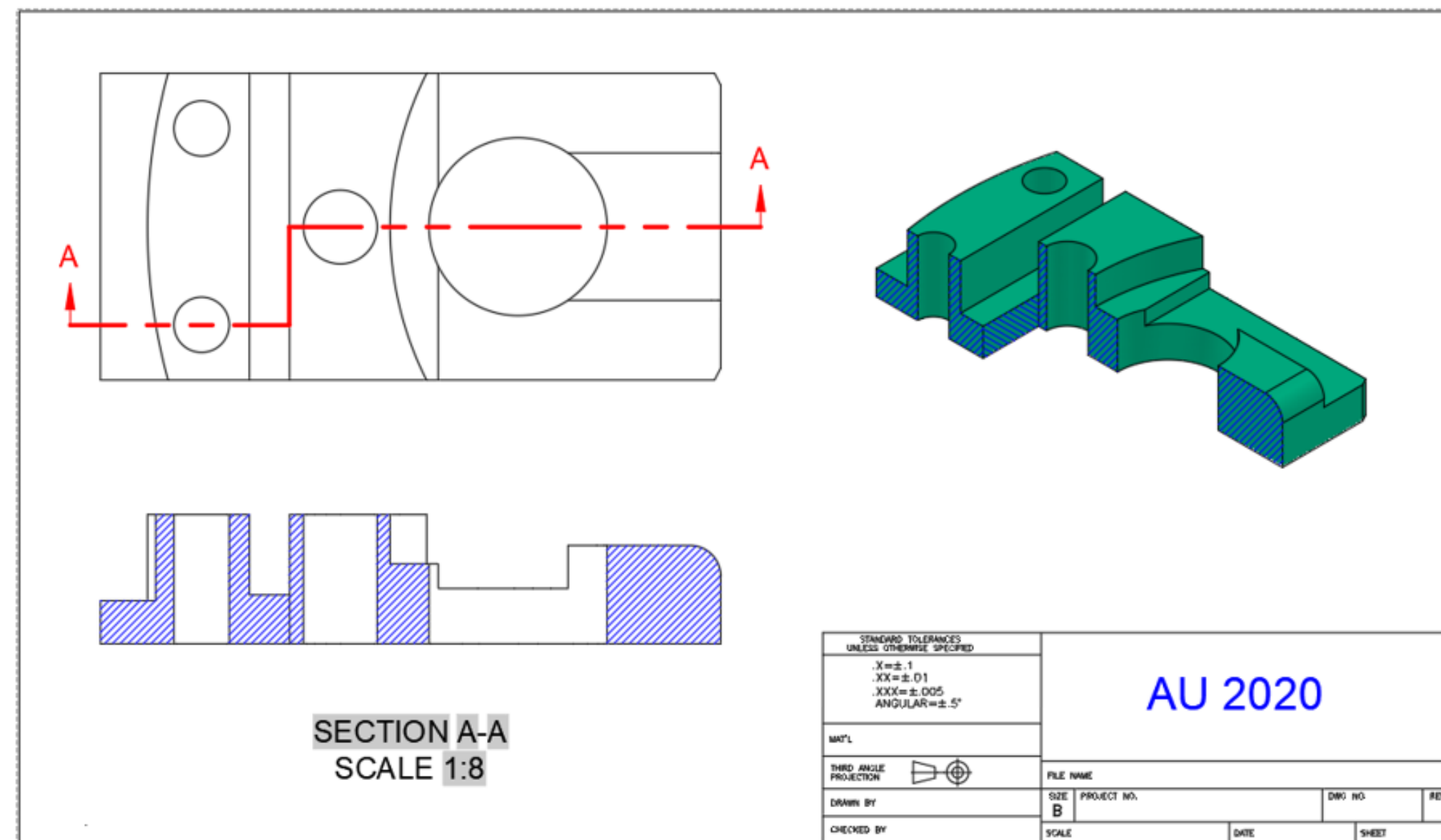
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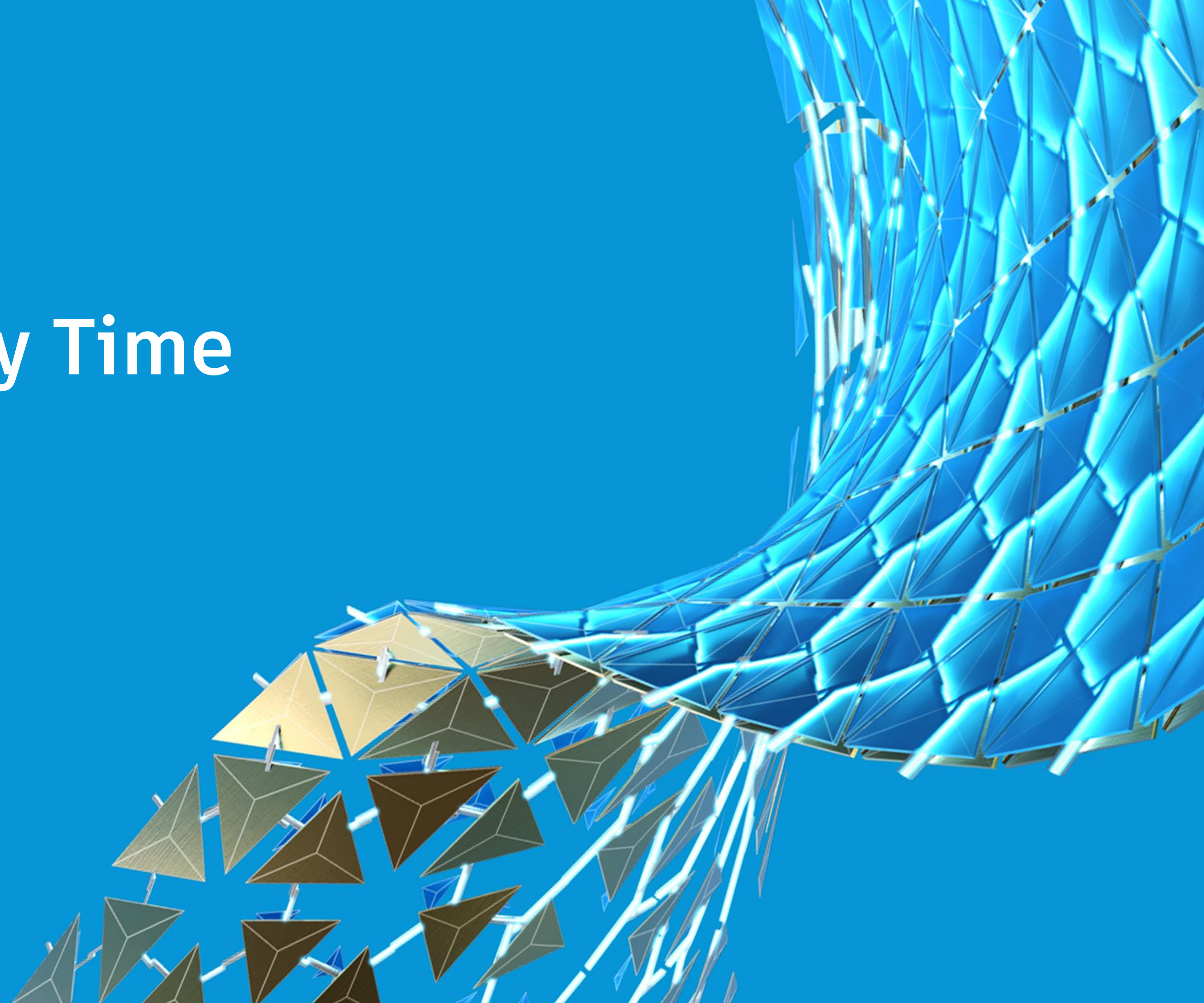
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Let's get started.....

- Create Offset Sectional Views.....



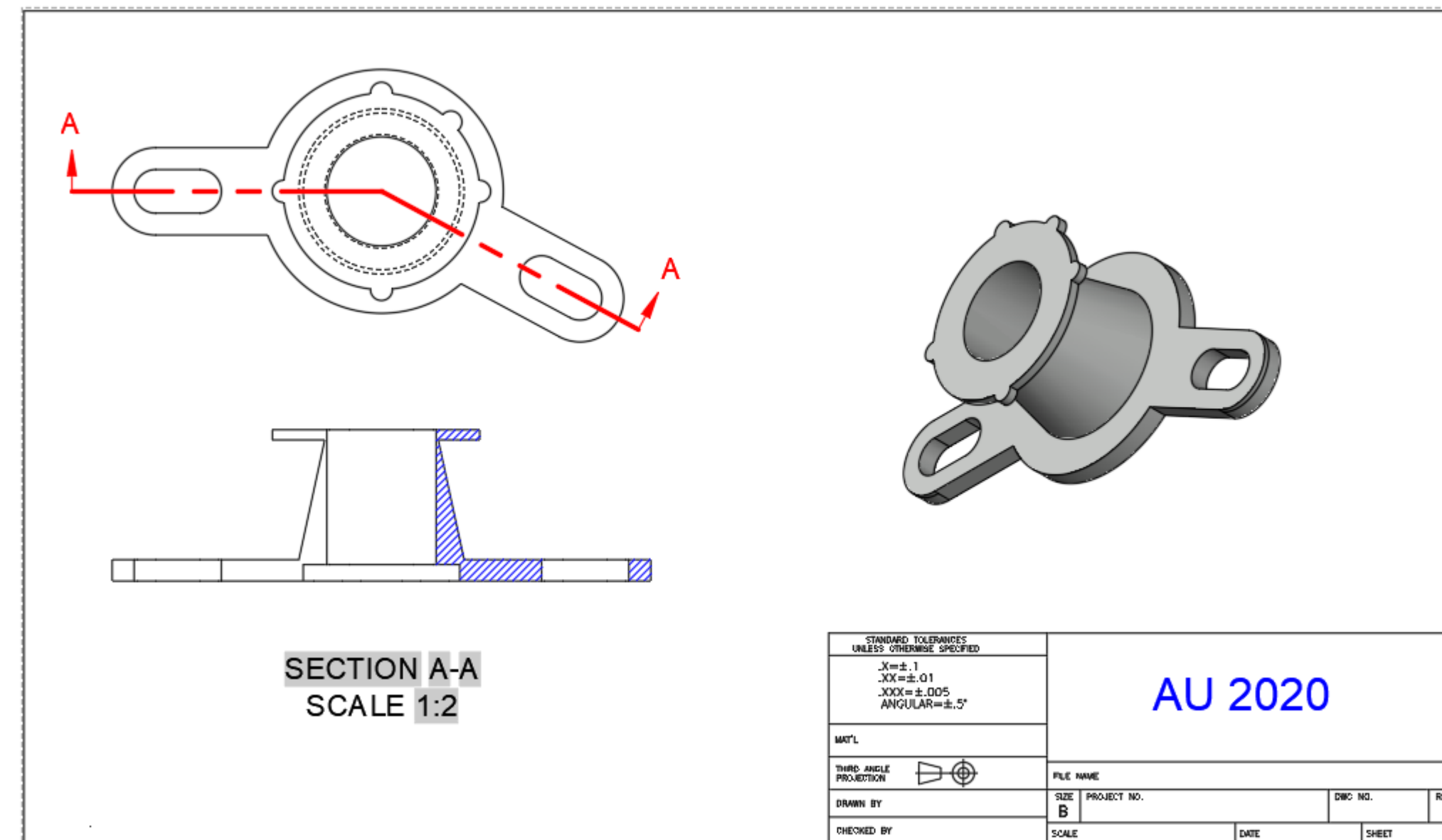
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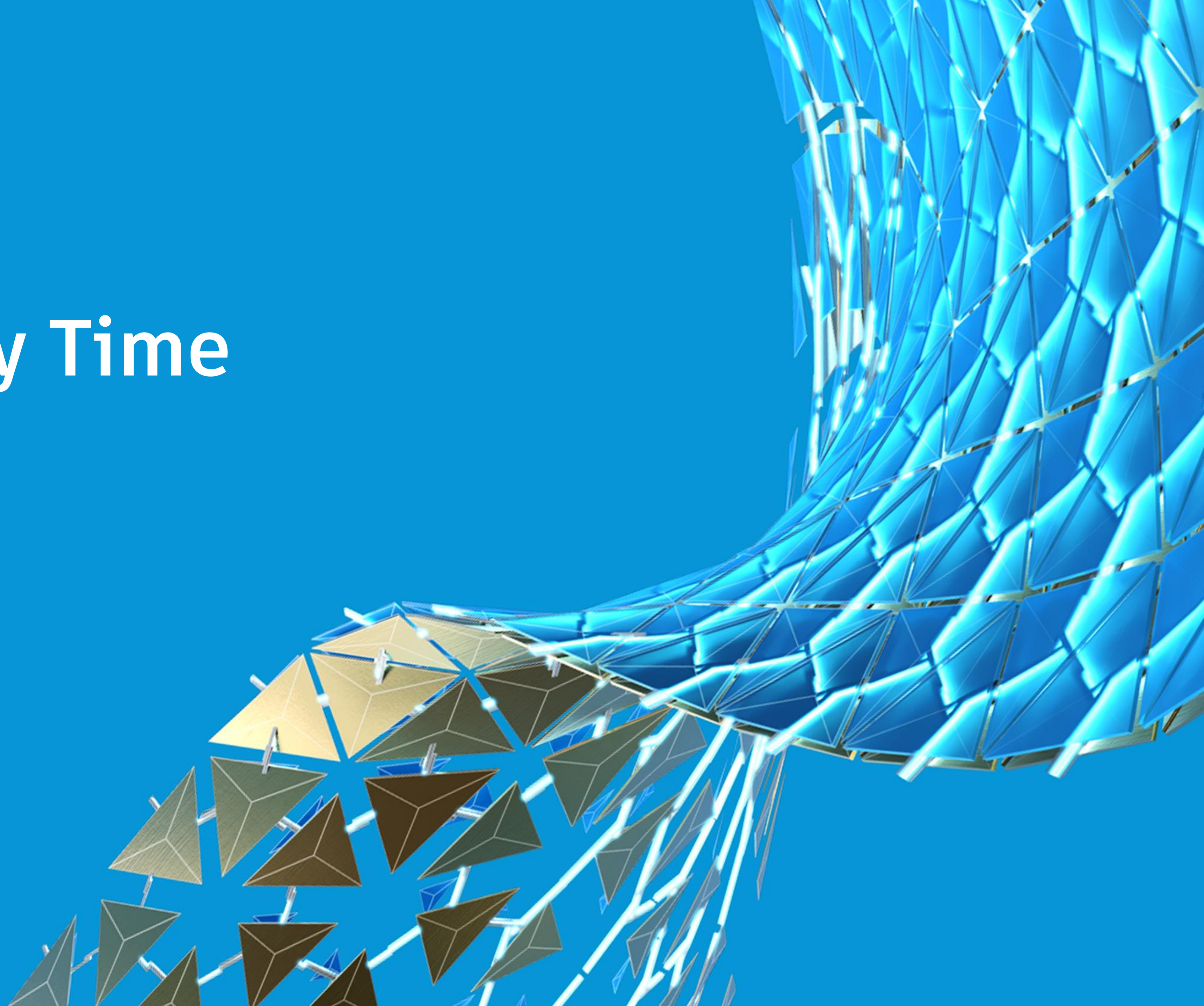
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Let's get started.....

- Create Aligned Sectional Views.....



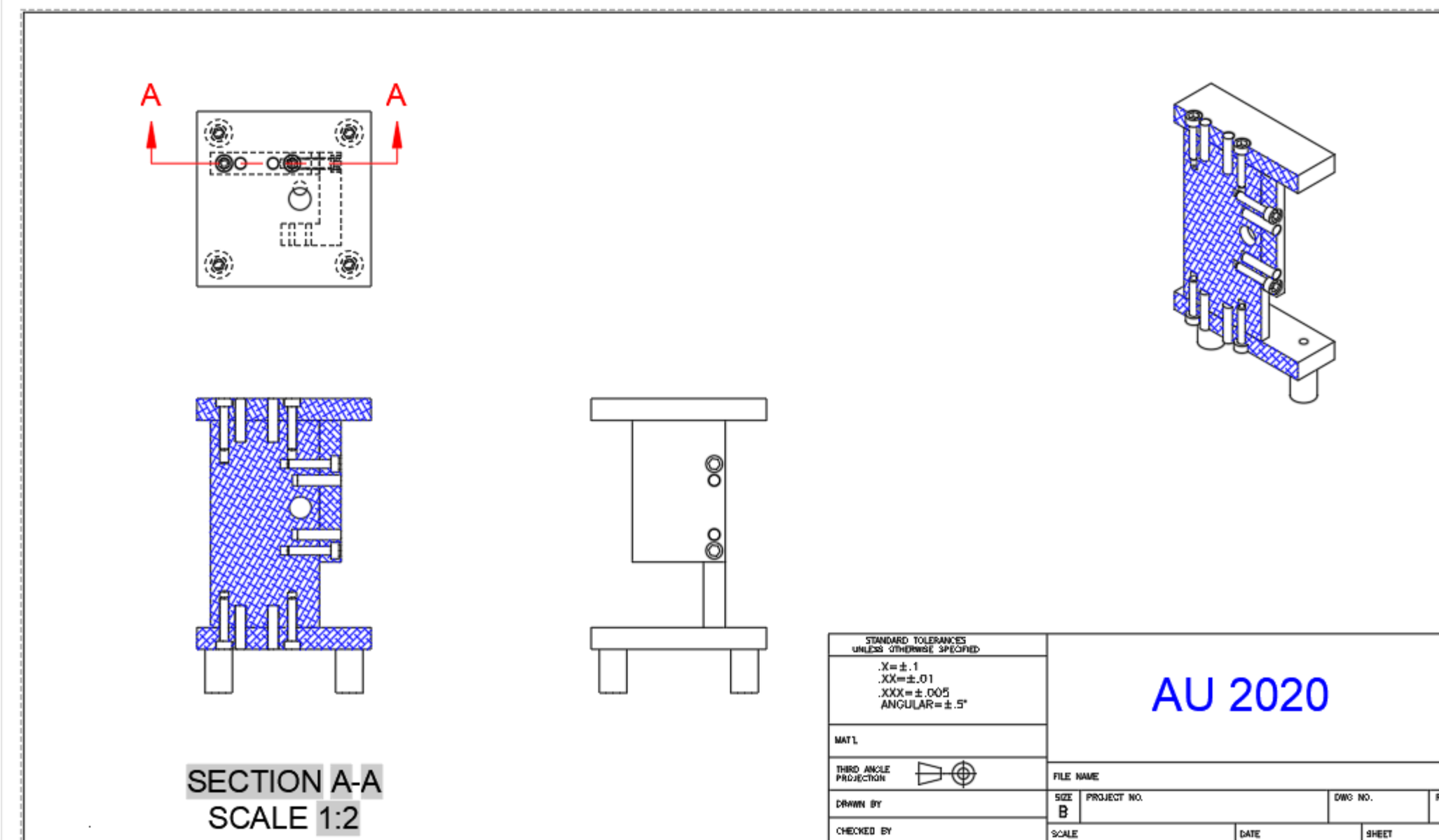
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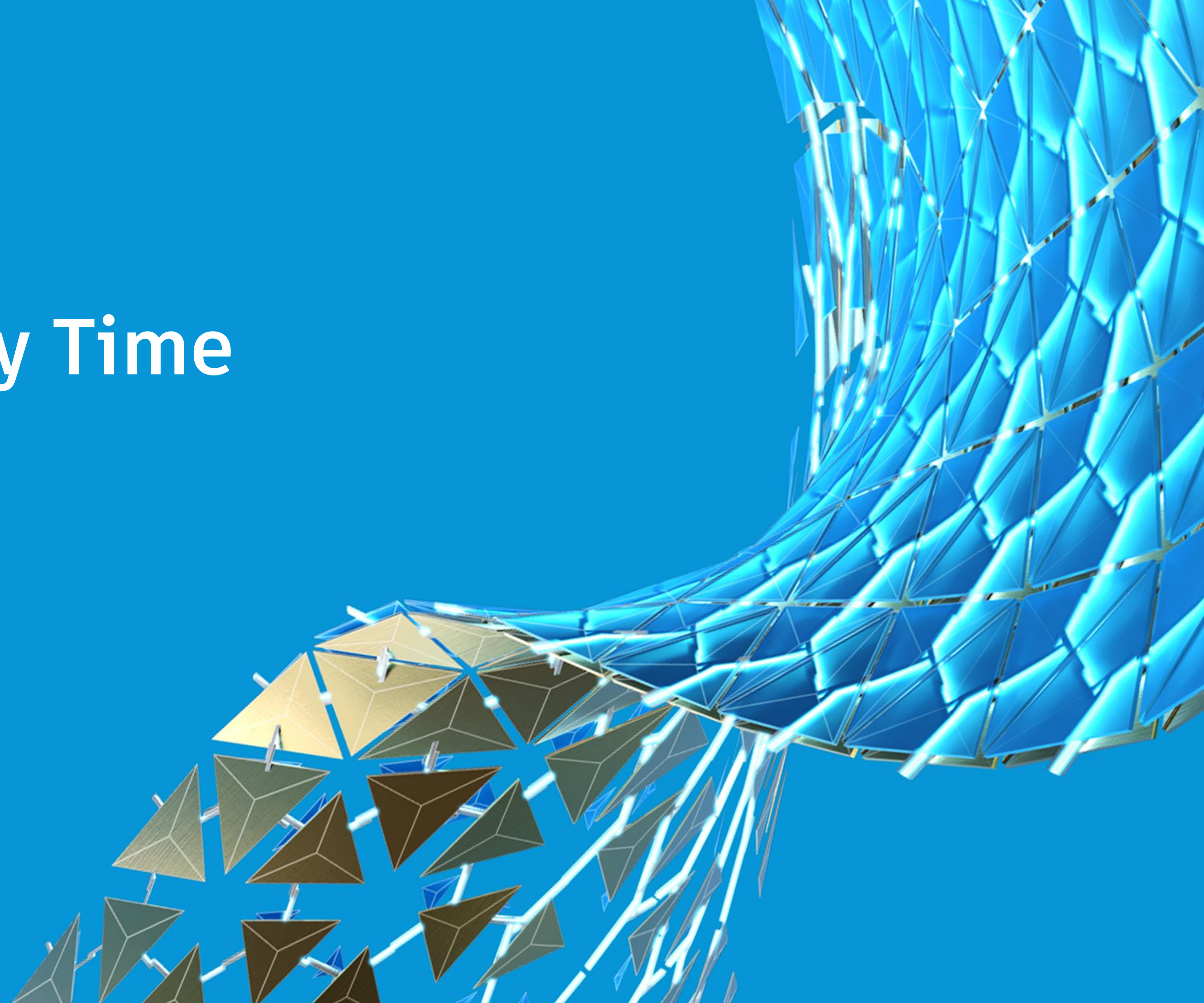
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Let's get started.....

- Exclude Components from Sectioning.....



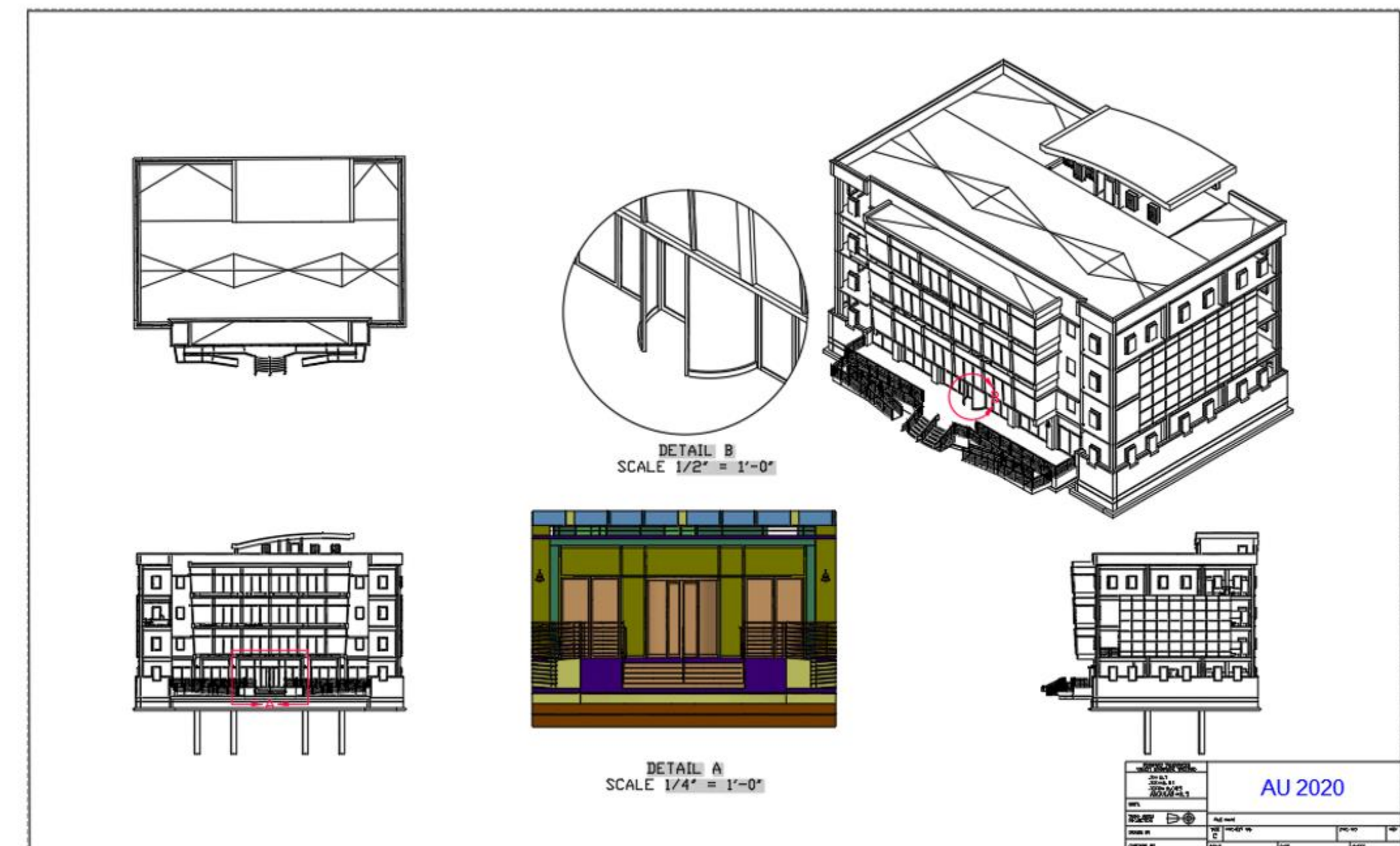
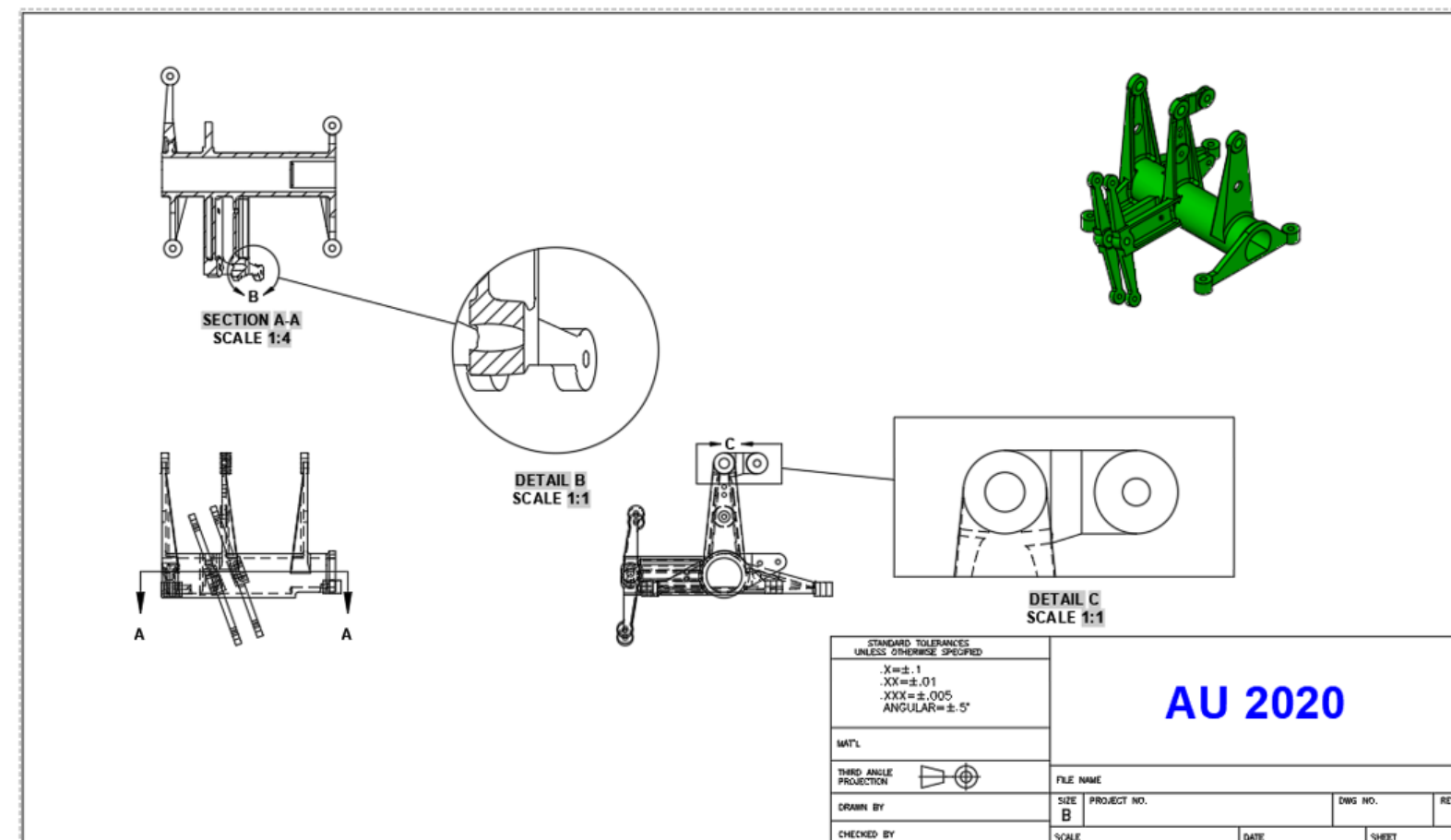
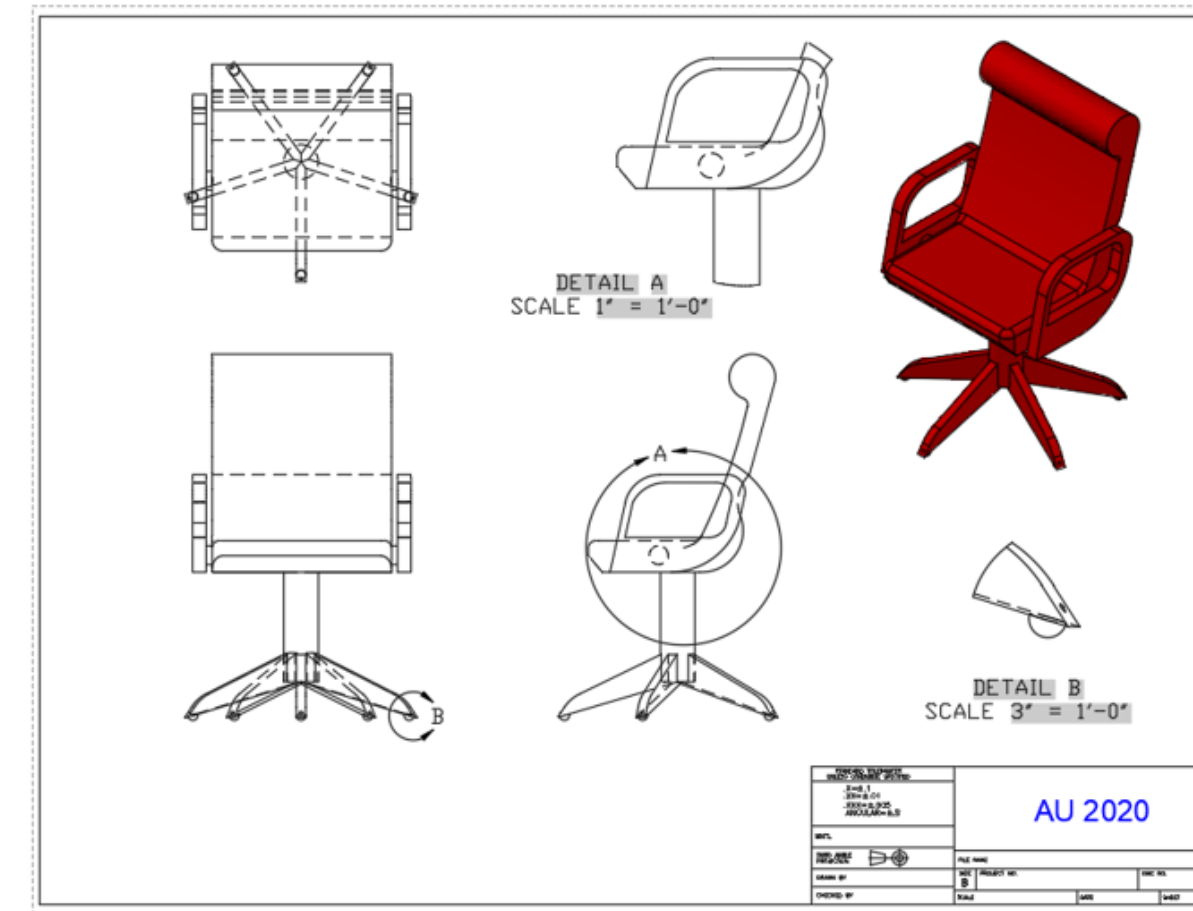
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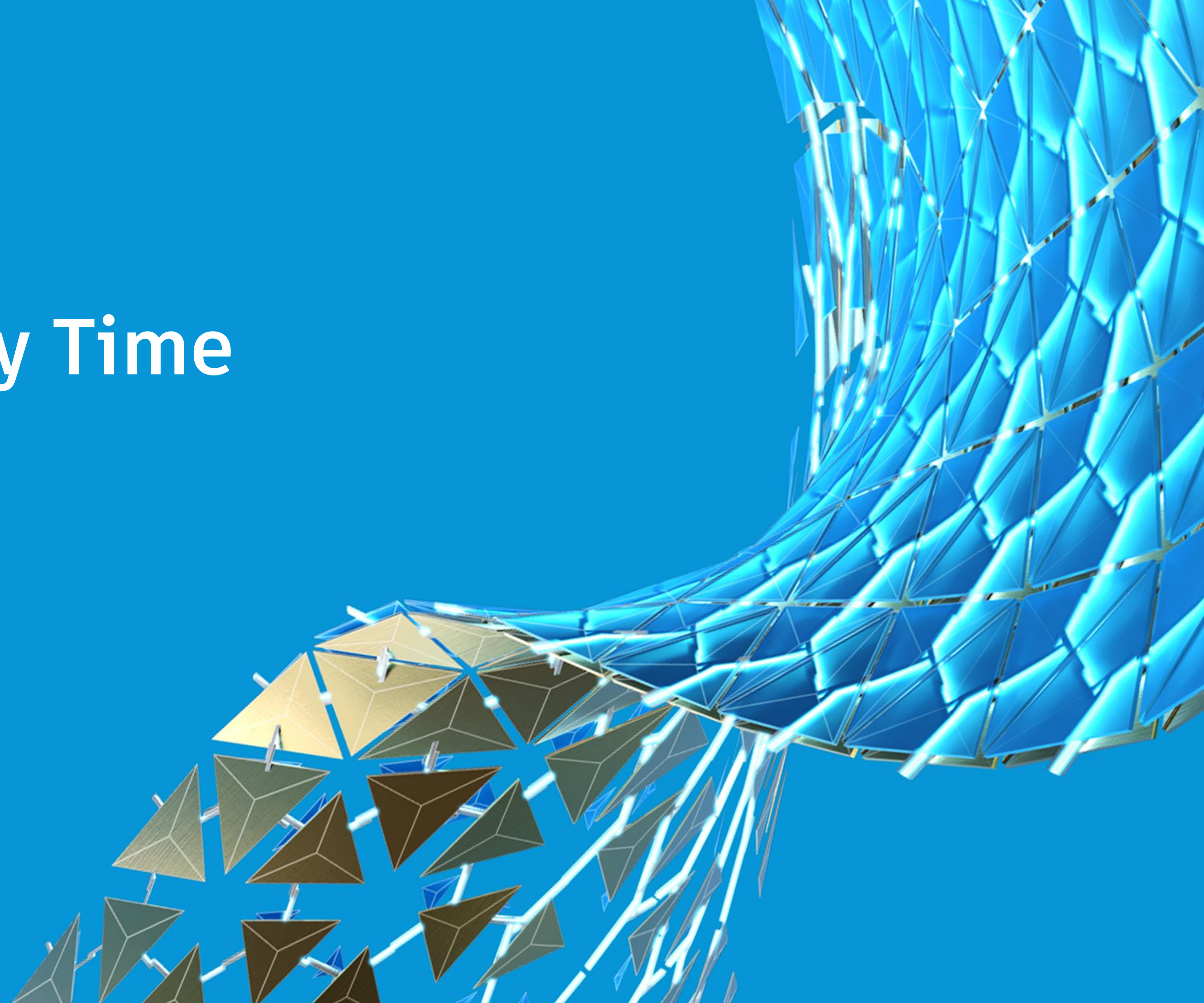
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Let's get started.....

- Create Details.....



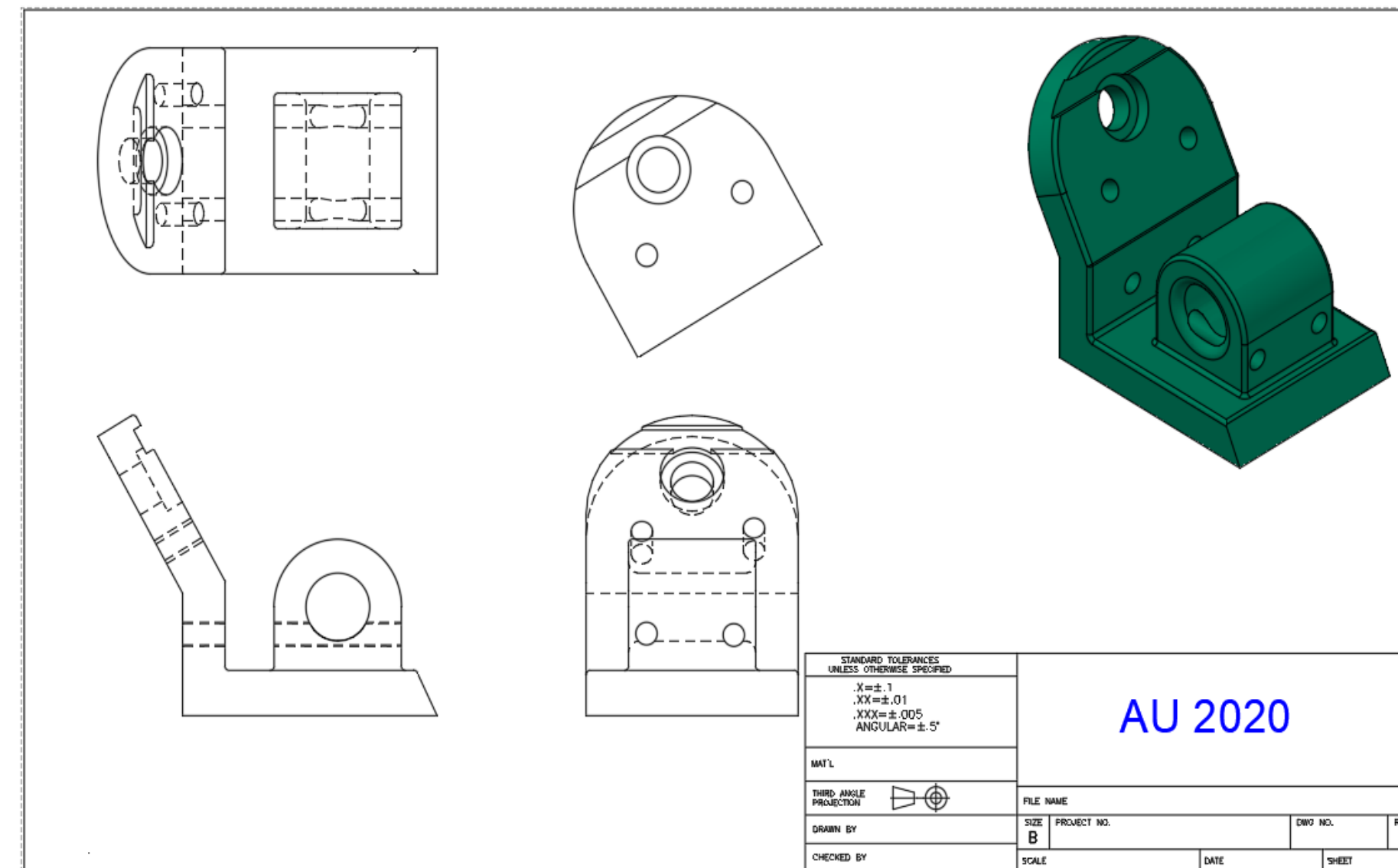
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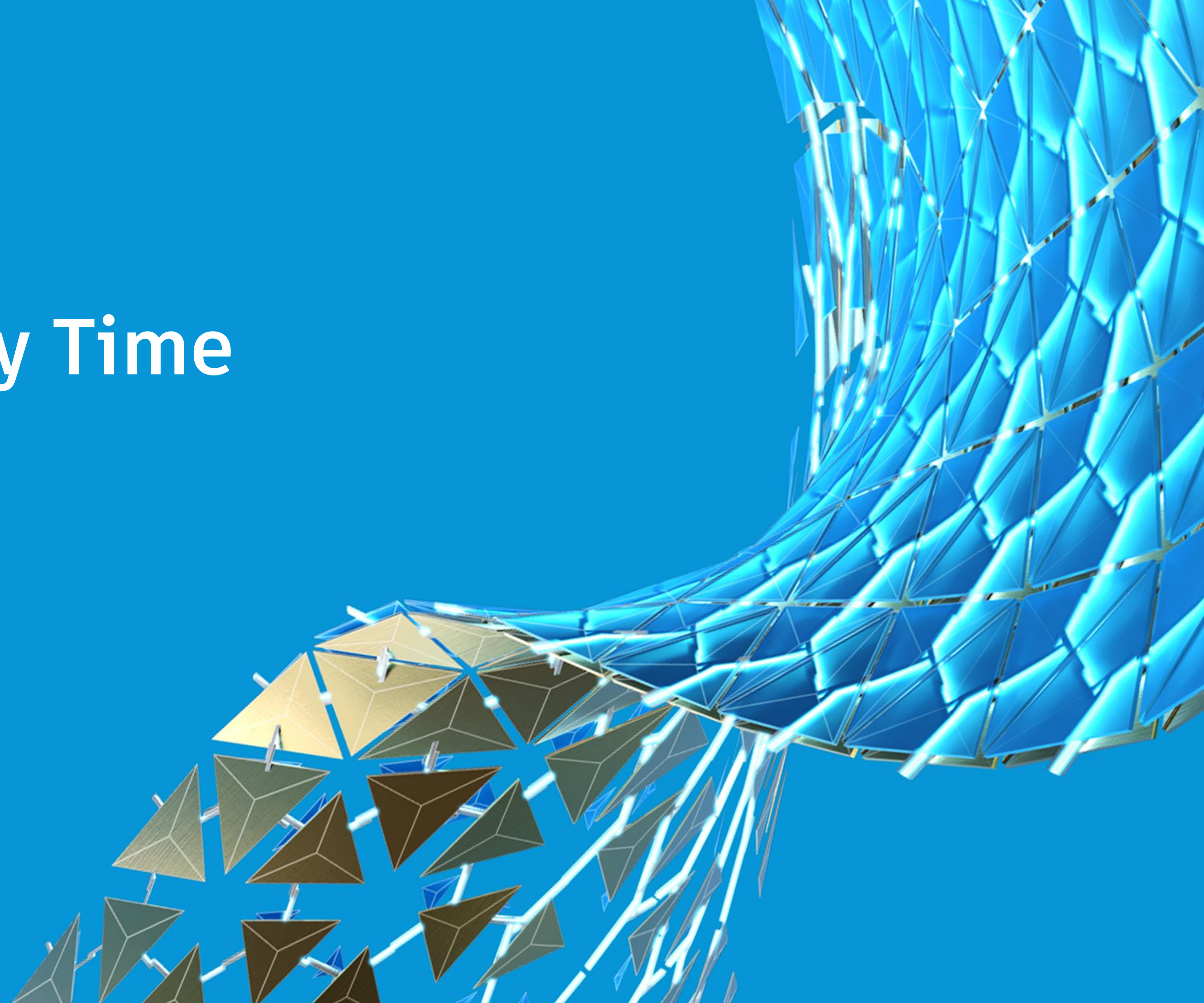
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Let's get started.....

- Create undocumented Auxiliary Views.....



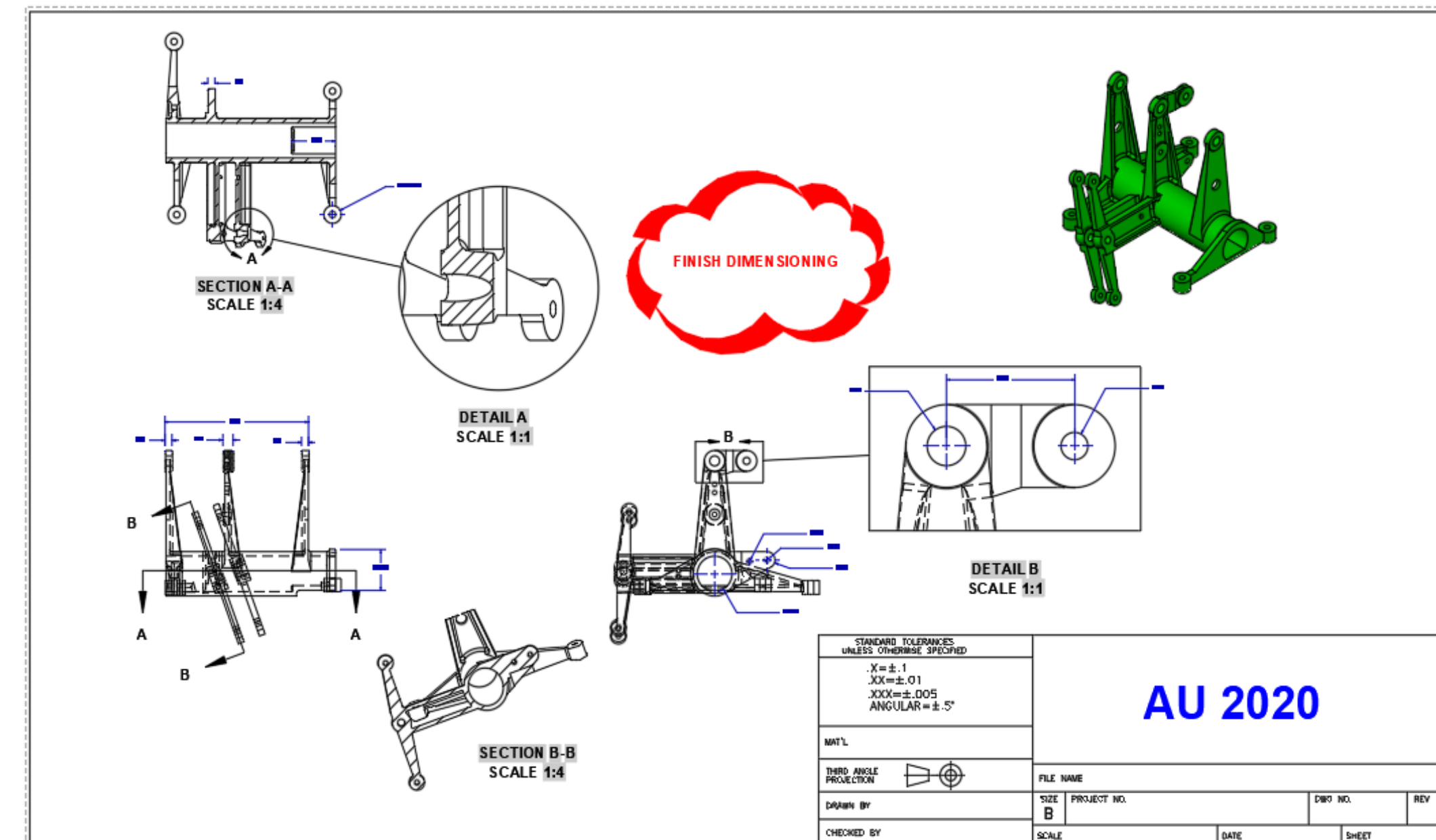
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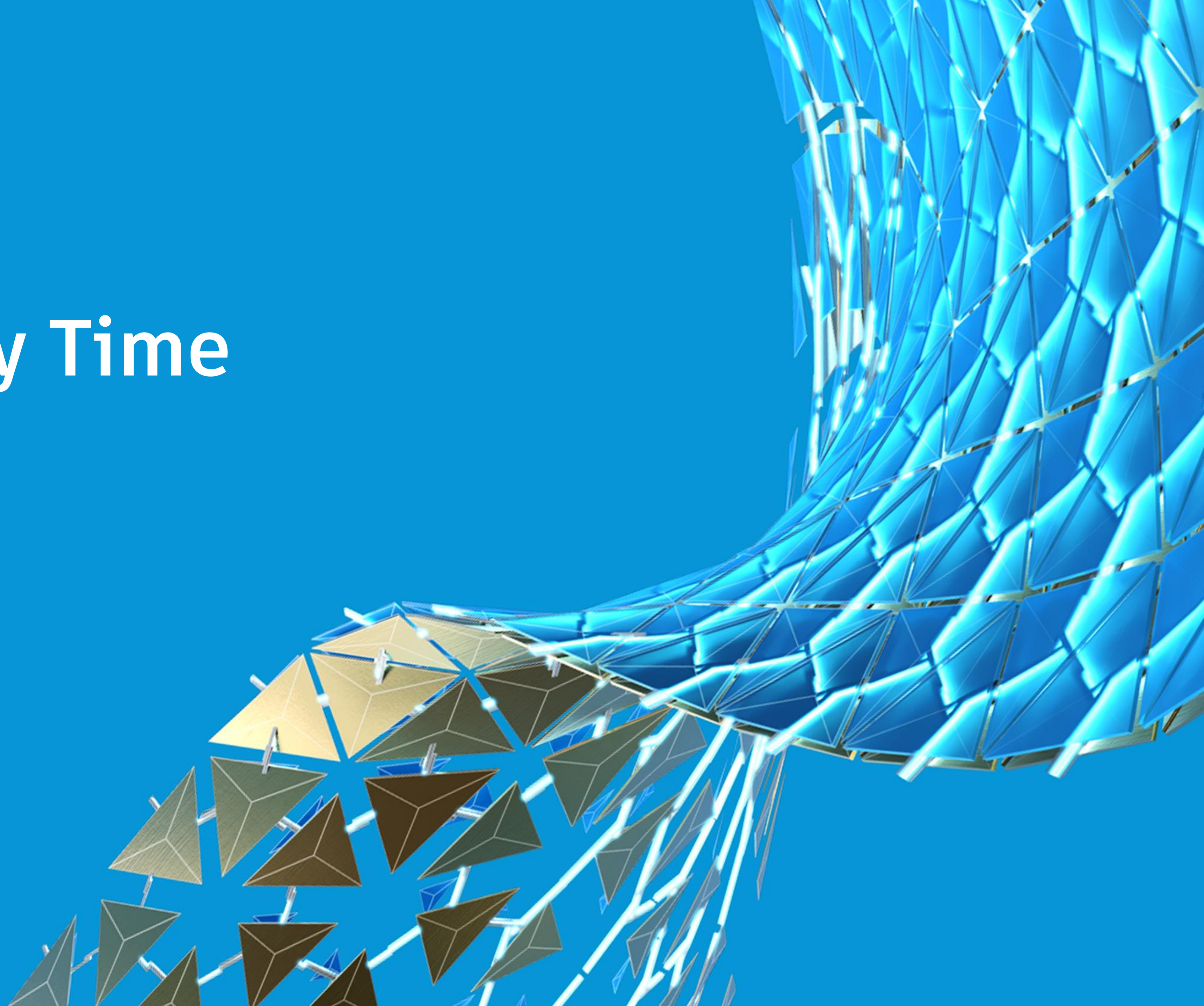
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Let's get started.....

- Create Dimensions and Export the Layout....
 - To create 2D geometry in Model Space
 - To use on company website



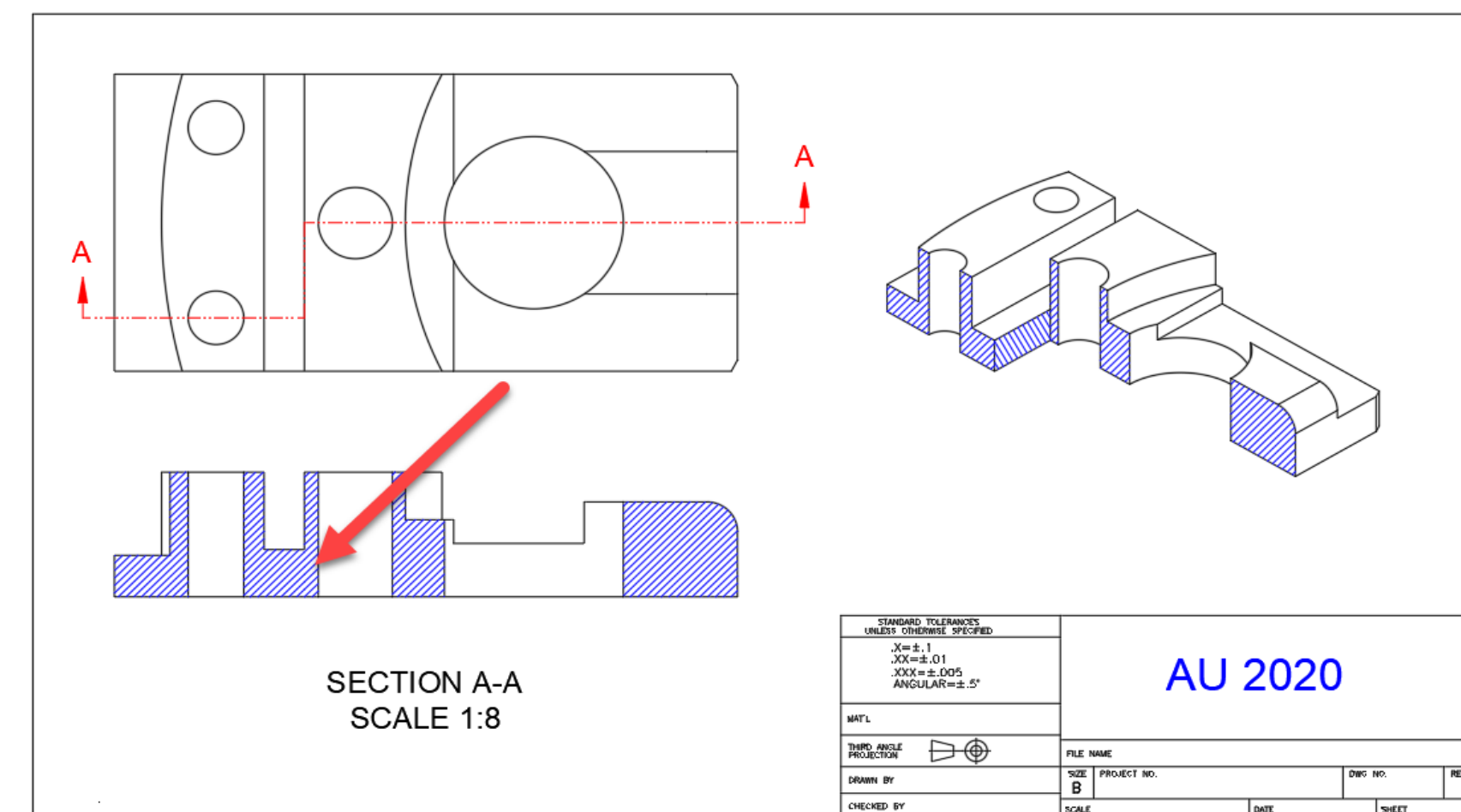
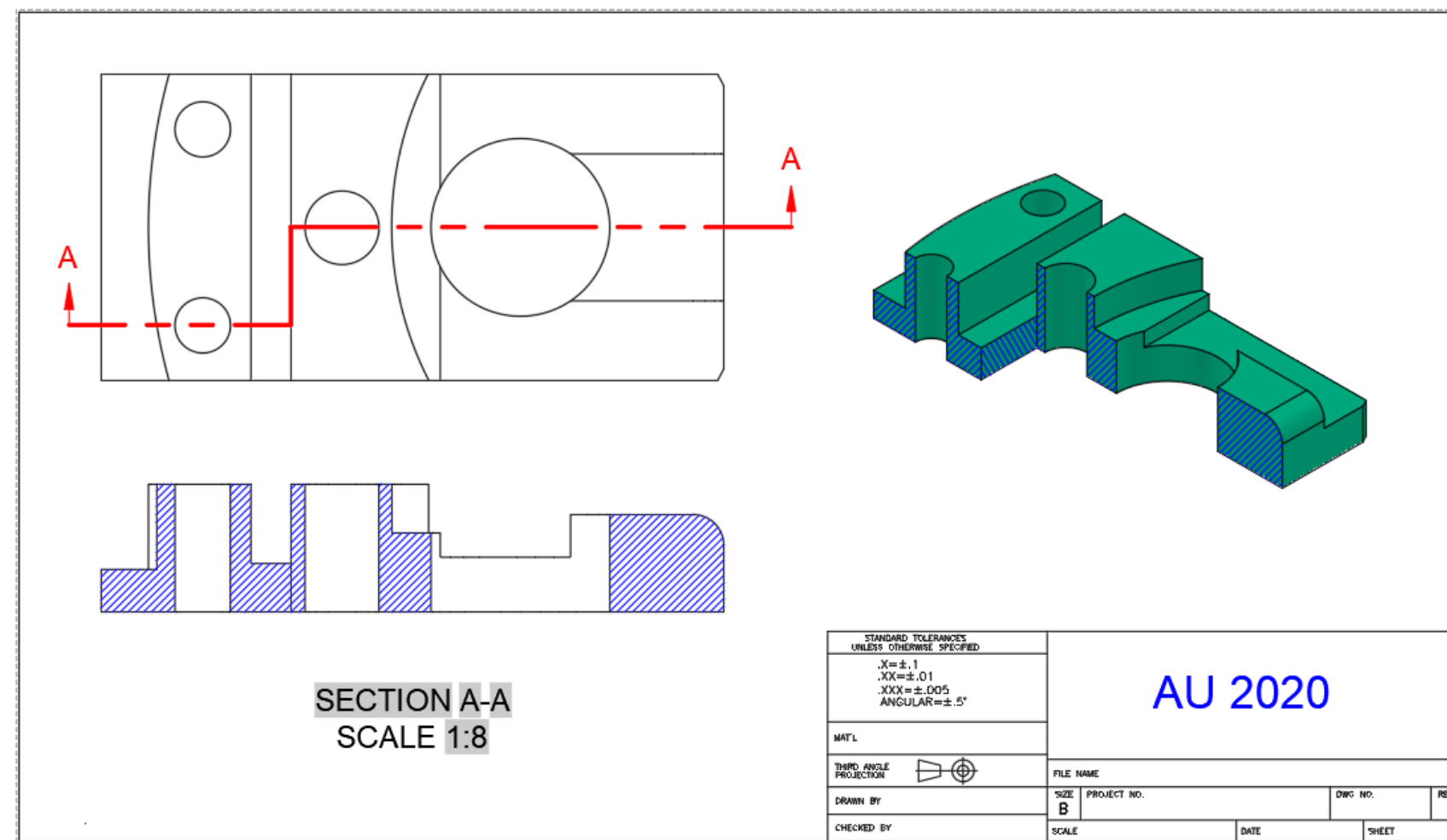
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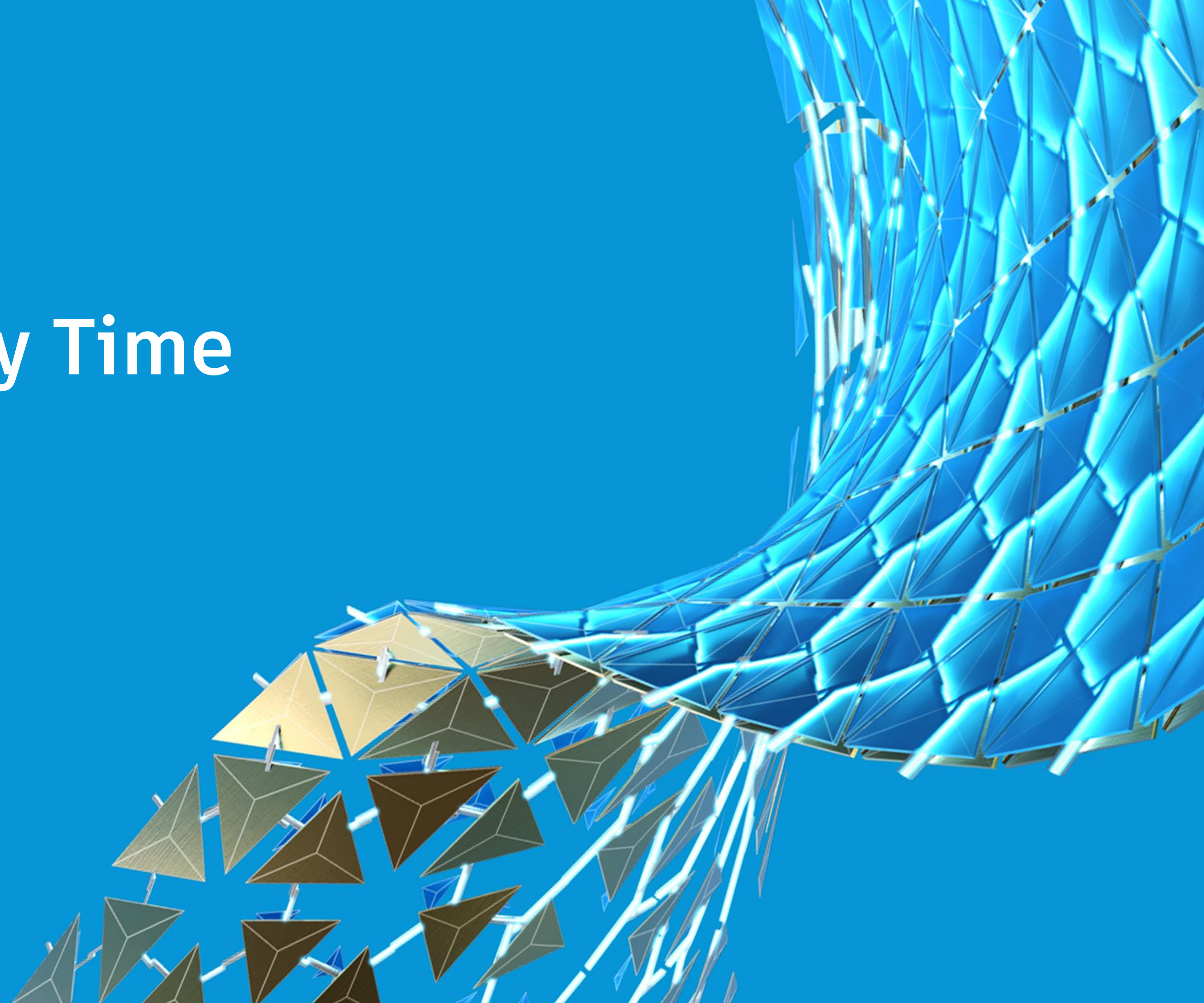
Compelling 2D Sections, Details, and Auxiliary Views from AutoCAD® 3D Models

Let's get started.....

- Removing objects from a exported layout in Model Space



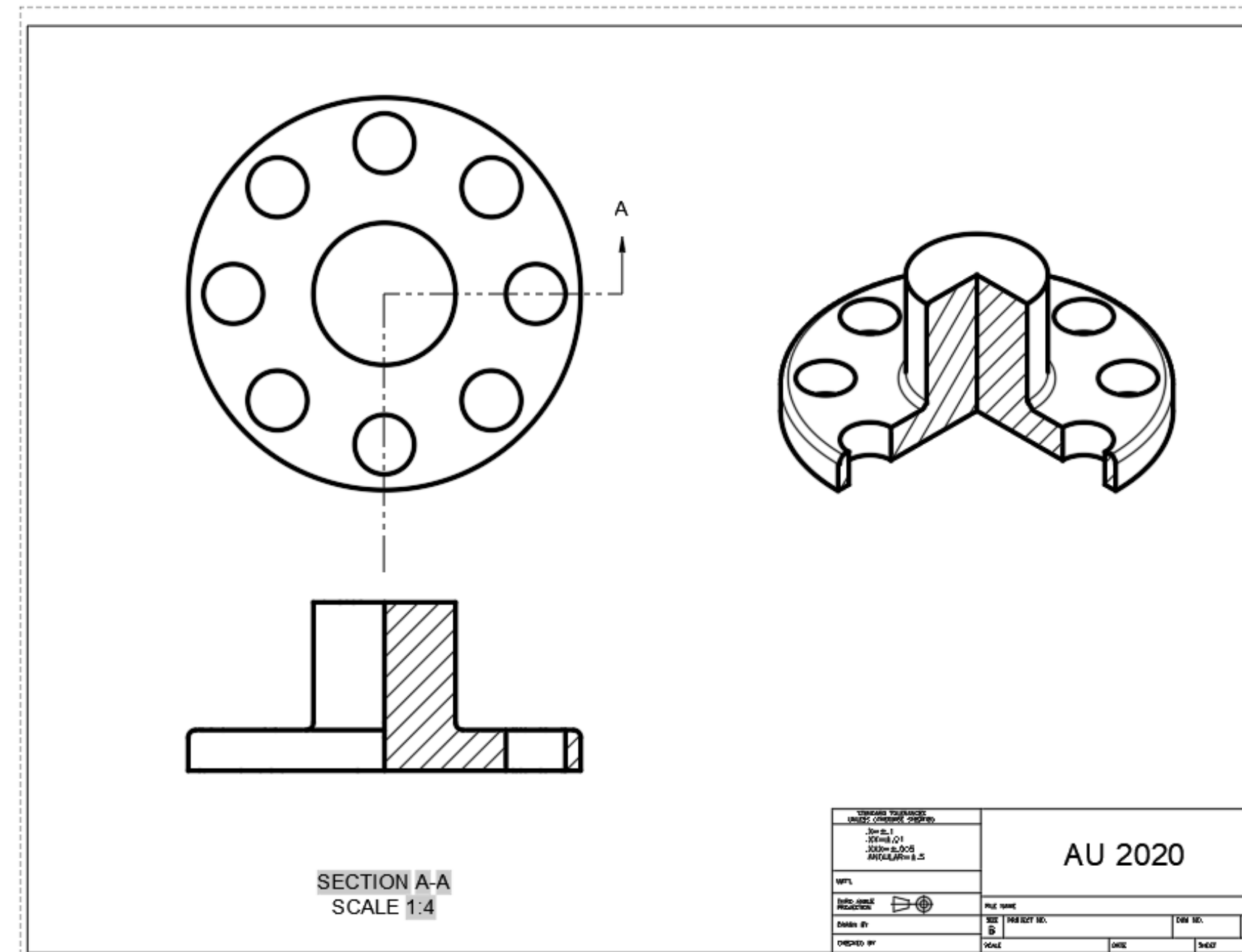
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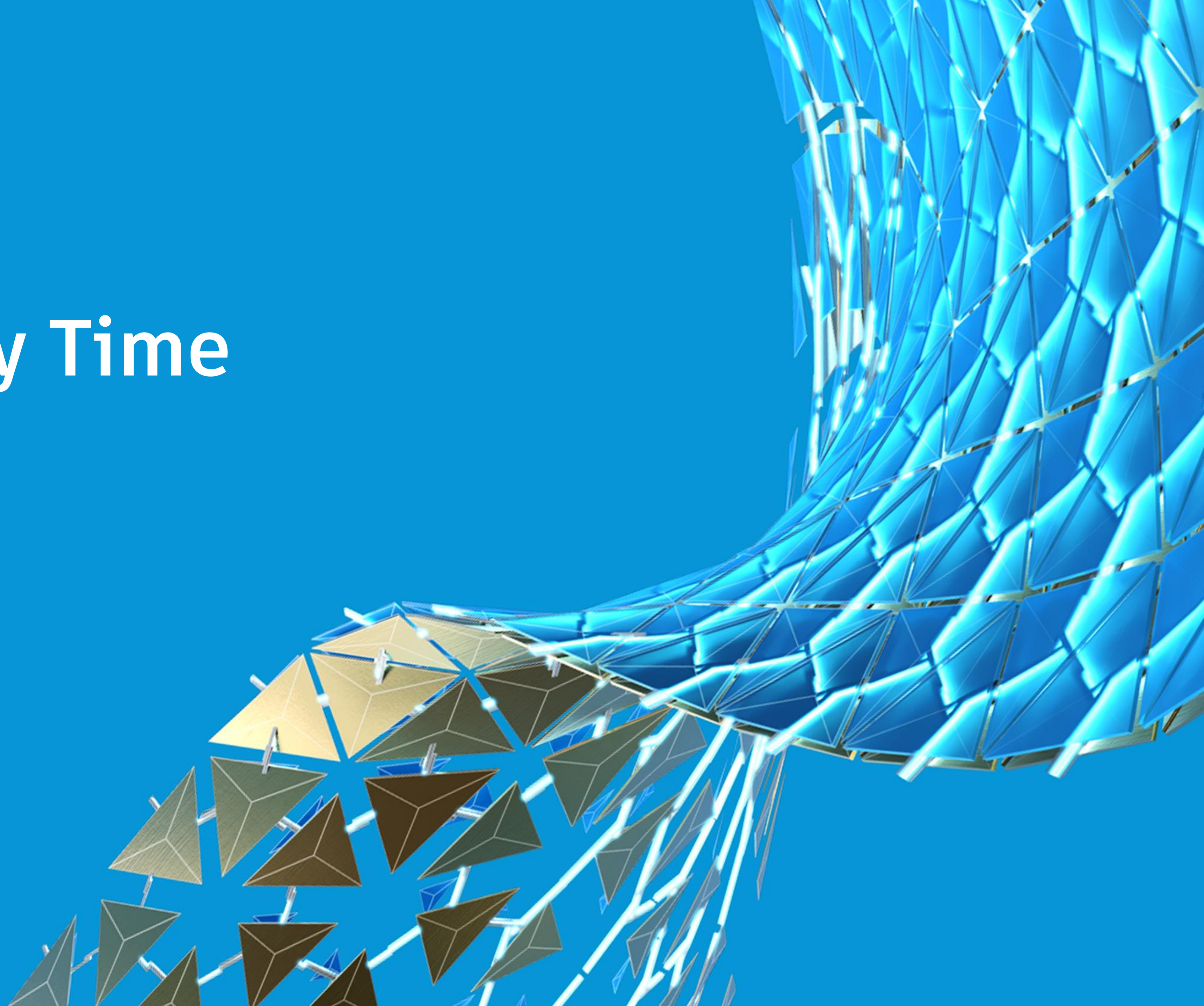
Compelling 2D Sections, Details, and Auxiliary Views from AutoCAD® 3D Models

Let's get started.....

- Edit the 3D Models



Activity Time



Compelling 2D Sections, Details, and Auxiliary Views from AutoCAD® 3D Models

Conclusion

- Review the PowerPoint presentation
- Use some of your 3D models to create multi-view drawings with sections and details
- Export the layout to use in model space

Compelling 2D Sections, Details, and Auxiliary Views from AutoCAD® 3D Models

Conclusion

You are now able to:

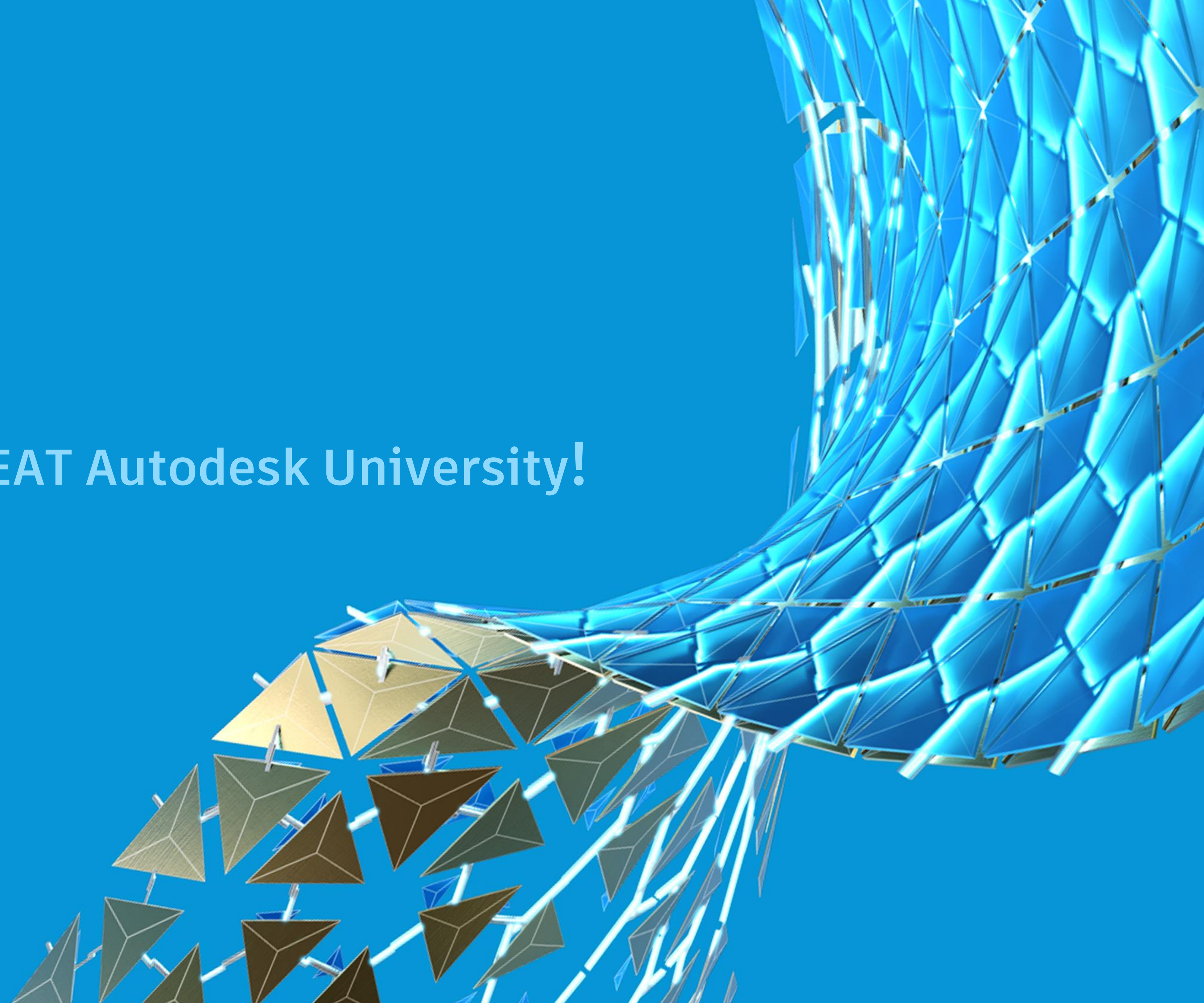
- Create drawing views of AutoCAD 3D models for drawing 2D sections (full, half, offset, aligned and details), exclude features from drawing views and dimension drawing views
- Create undocumented auxiliary views from AutoCAD 3D models
- Edit 3D models and their 2D associated drawing views
- Export drawing views to create 2D, sectional, multiview drawings in model space

Thank You!

Please add any comments

I hope you have a GREAT Autodesk University!

cadinfo@digitaljccad.com





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