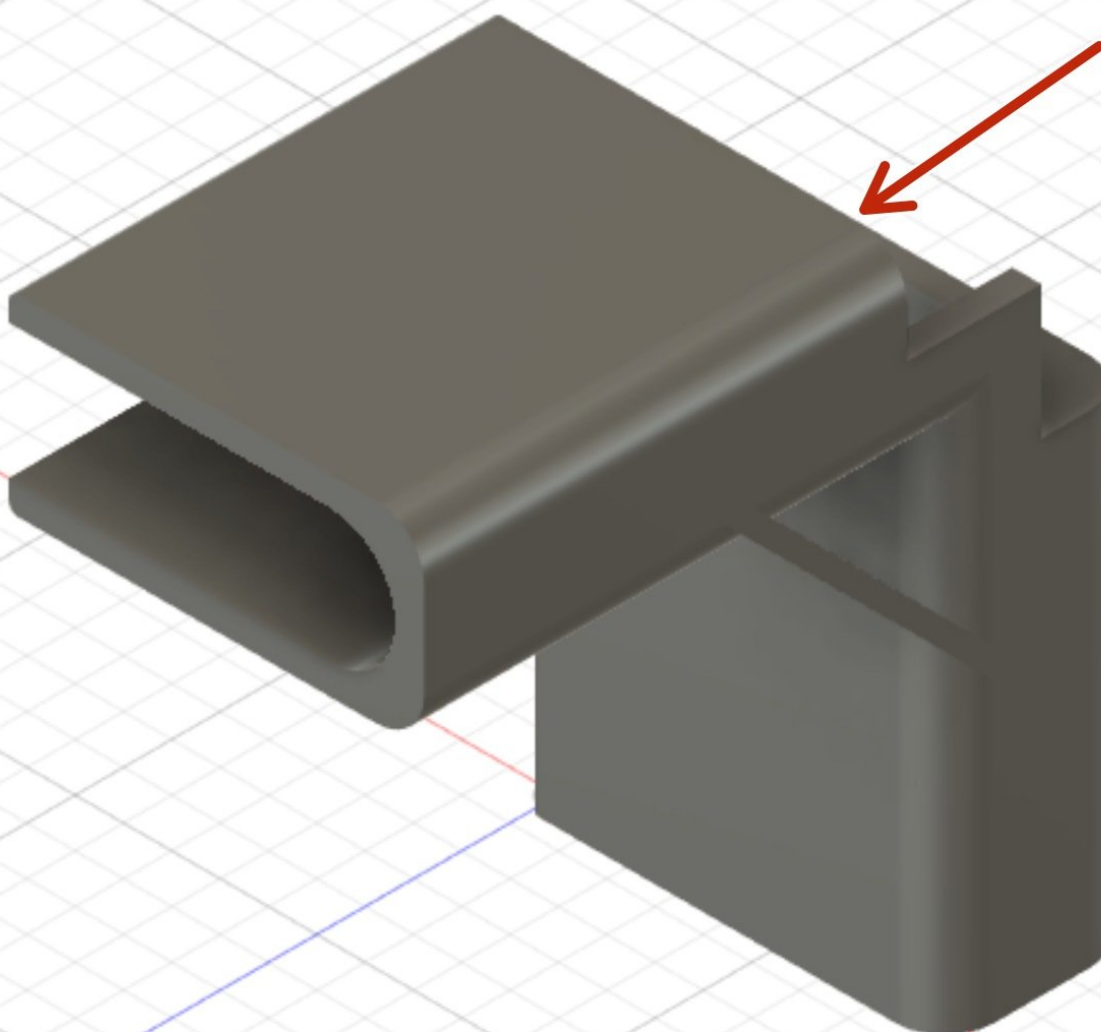# Creating Engineering Drawings

This guide reviews the process and tools for creating engineering drawings from a completed design

Written By: Eli Jared Fastow

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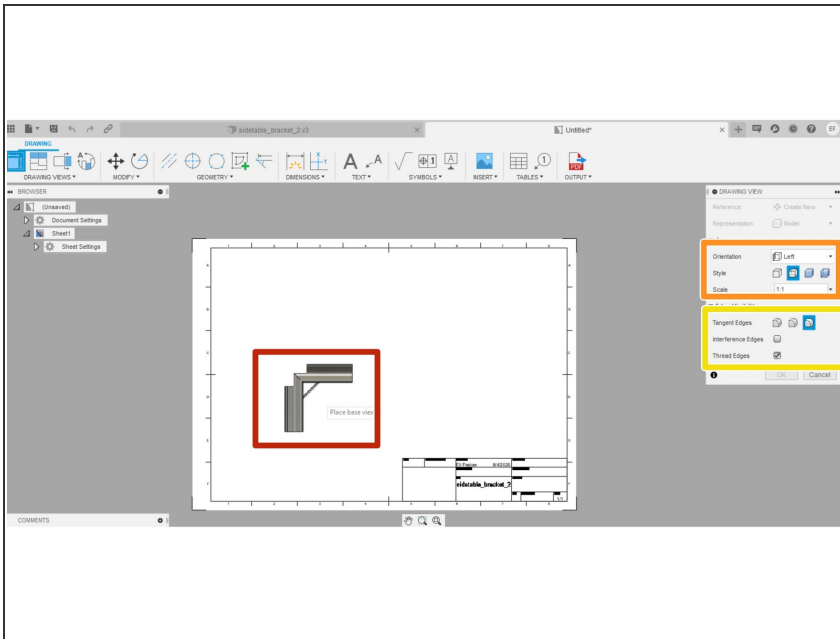© 2021   dozuki.umd.edu/   Page 1 of 8

Introduction

Often, multi-view engineering drawings form a key component of the material reviewed when evaluating a design for manufacturing. This guide overviews the process of creating an engineering drawing, and the tools available to annotate it properly.
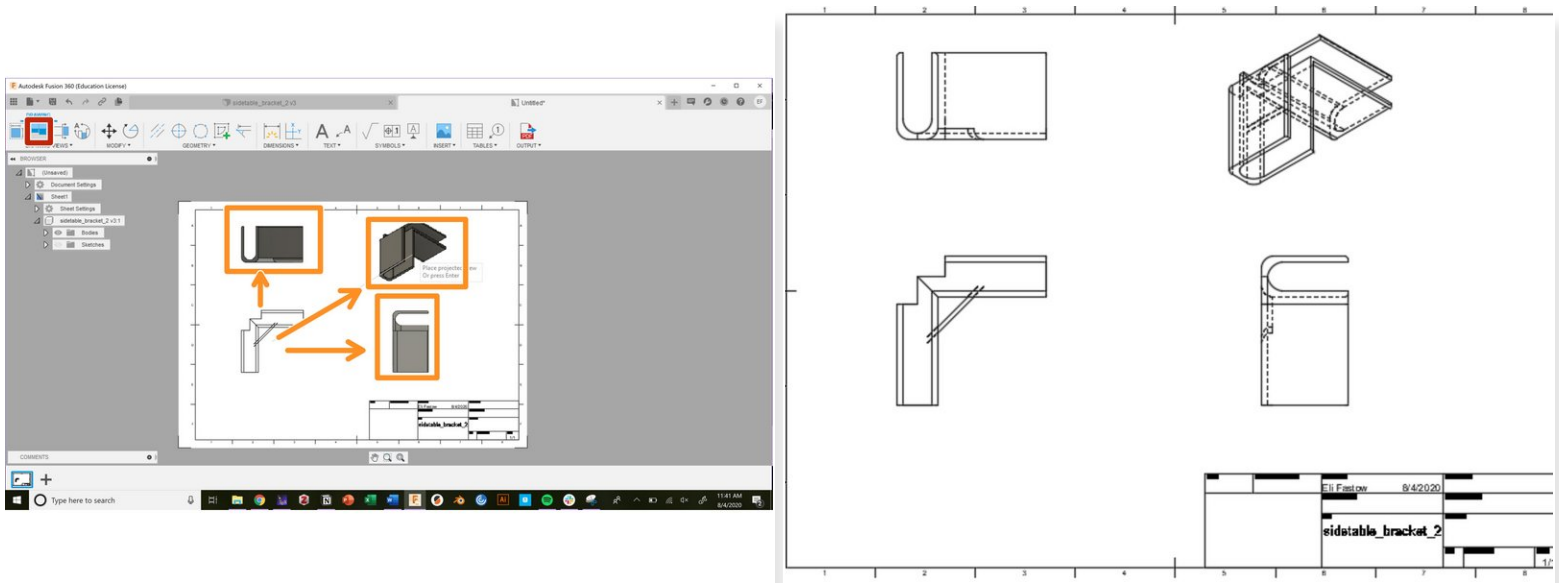
Step 1 — Opening a Drawing from a Design
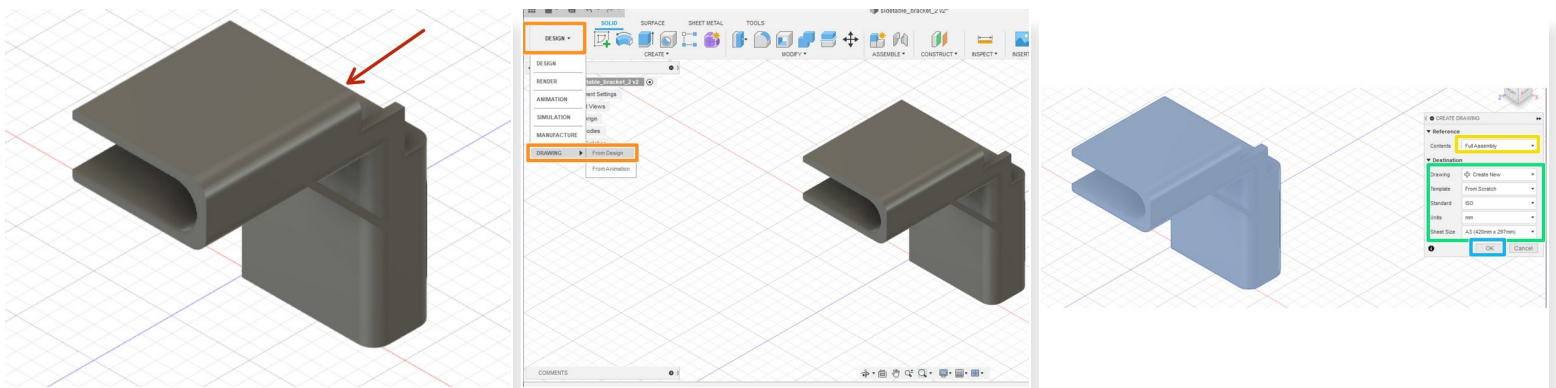
- Fusion 360 enables the creation of drawings directly based on a design. This bracket for a table comprises the demonstration part for this guide.

- To open a new drawing, navigate to the workspace toggle, and select drawing from design

- This will open a drawing creation window

- In the drawing creation window, select the type of feature to draw (full assembly or only selected components)

- Select the parameters of the drawing sheet

- Hit Okay to open the new drawing

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Step 2 — Placing the Base View

- After finishing with the Drawing from Design window, a new drawing workspace will open

- The new workspace starts with the base view feature already open
  - ⓘ The base view is just a depiction of the part from one face or angle. The full drawing consists of a base view and several projected views, typically capturing the design from the front, top, right, and isometric views

- Click in the drawing sheet to place the base view

- Use the base view window to toggle to appearance settings and scale

- Select the edge visibility. Options allow for making hidden edges or threads visible or invisible.

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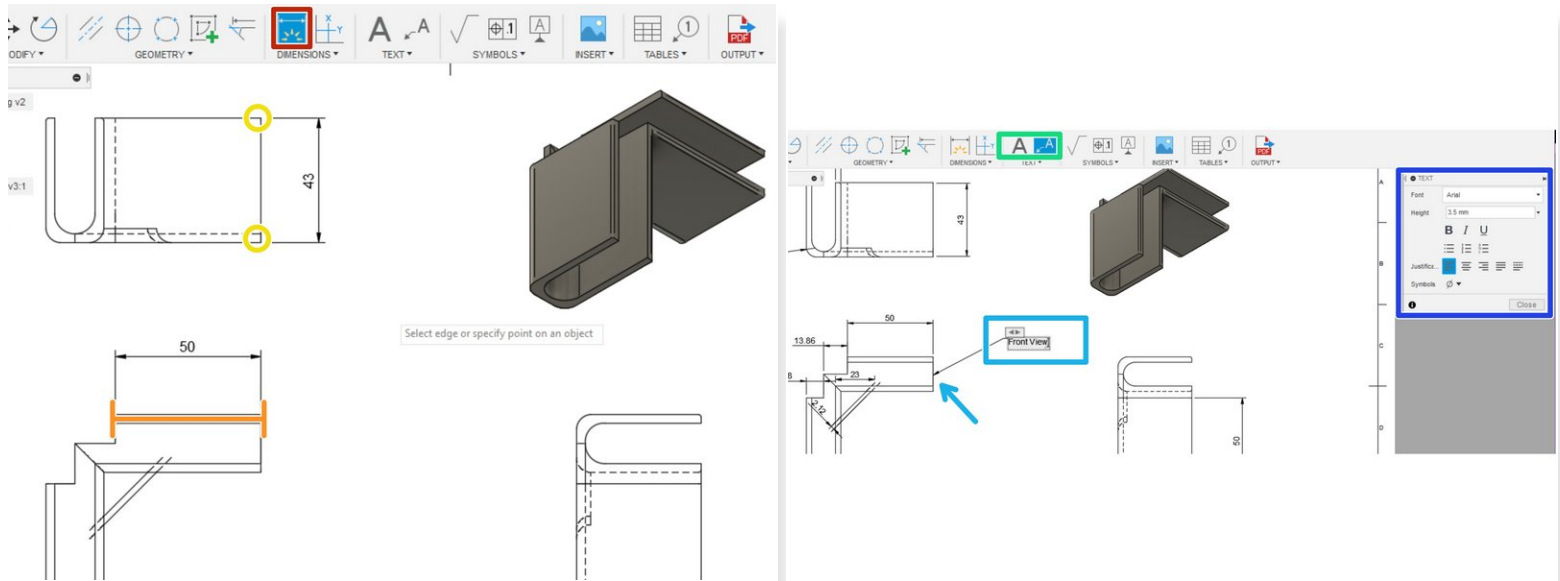
Step 3 — Placing Projected Views

- Use the projected view tool to create the rest of the perspectives on a design in a multi-view engineering drawing.

- Select the Projected Views button in the toolbar

- Select the base view, then drag and click to create new projected views

- Create enough new views to depict all of the details on a part. This typically requires a front, top, side, and isometric view

- Hit the enter key to exit the projected view tool

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Step 4 — Editing Projected Views
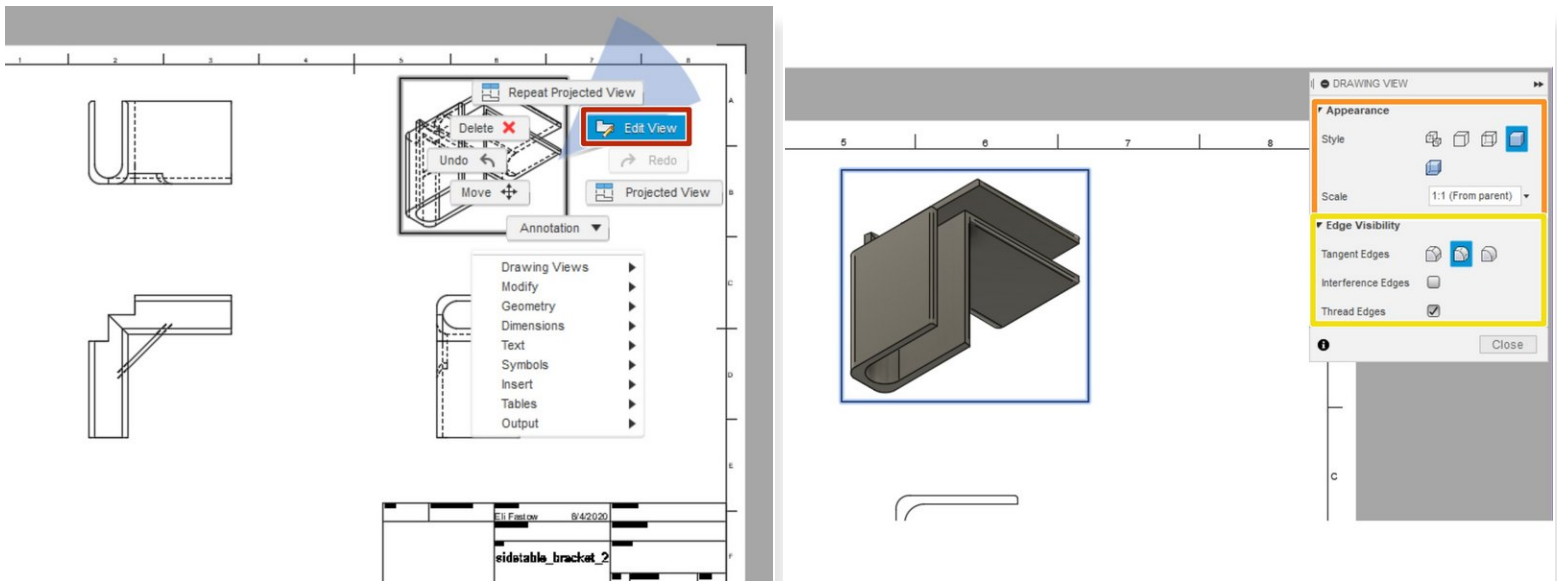
- To edit a projected view, right click on the view then select "Edit View"

- This opens up a Drawing View setting window. Use this window to edit the appearance and scale.

- This window also includes edge visibility settings

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Step 5 — Adding Dimensions and Annotations

ⓘ Adding accurate dimensions is essential to a complete multi-view drawing

● Click on the smart dimension button on the toolbar to create dimensions

● Smart dimensions can automatically recognize individual features. For example, selecting a line prompts a length dimension.

● Selecting two points prompts a length dimension between them. Selecting three points prompts an angle.

● To create an annotation, select either the text or leader text button in the toolbar.

● Select the object to annotate if using leader text then type the annotation.

● Format the text with the pop-up text window.

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Step 6 — Editing the Sheet and Document
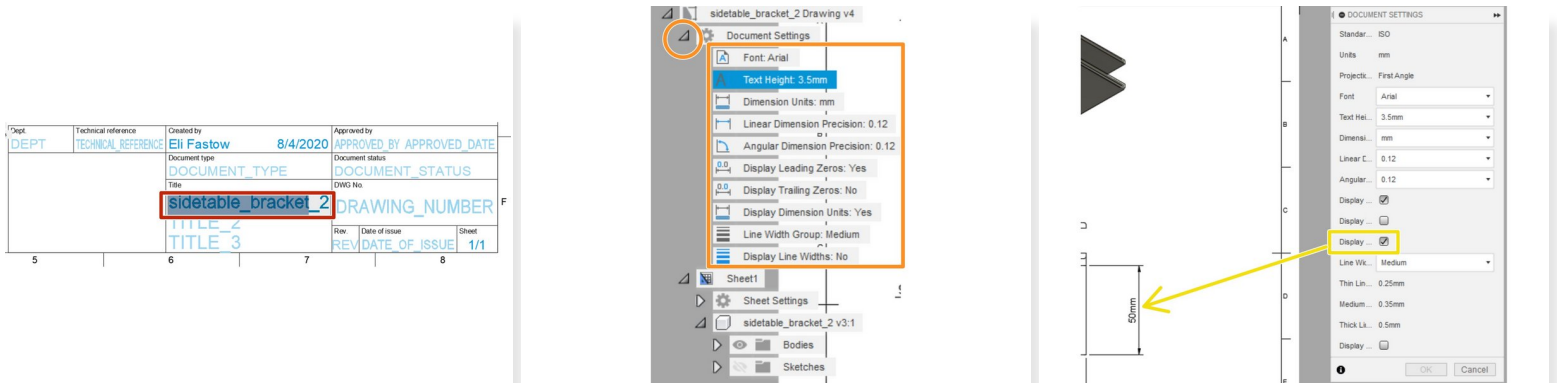
- Double click on any of the text in the properties table at the bottom right corner of the sheet to edit.

- To edit any of the global document settings, open the Document Settings menu in the feature tree and double click on any of the settings

- This opens the document settings menu

- Use the document settings menu to change any global text or display settings. For example, we used this menu to add units to all dimensions

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