



Ozhli
Academy of Science

Drafting

*9 Tips
to create
Manufacturable
Drafting.*



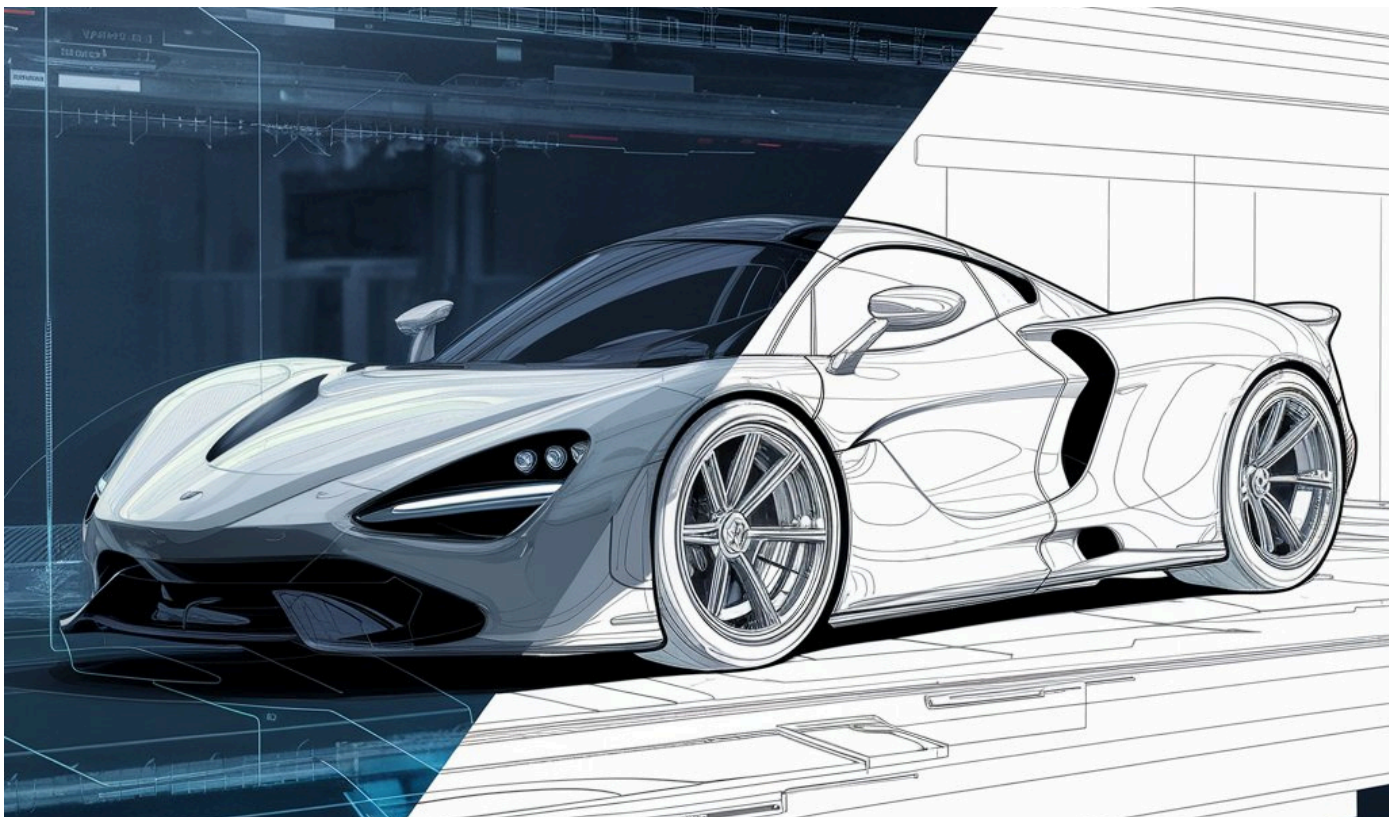
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Introduction

Welcome to "Drafting" This ebook is designed to help 3D CAD modellers transform their 2D drafts into clear, accurate, and manufacturable documents.

Whether you're a novice or an experienced designer, these tips will improve your drafting skills and ensure your designs are production-ready.



Understanding 2D Drafts

Before getting into the tips, it's essential to understand the importance of 2D drafts in the manufacturing process. These drafts serve as the blueprint for transforming your design into a physical product. They must be precise, easy to read, and

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Solid Models

- Solid models are complete representations of 3D objects, defining both internal and external features.
- **Uses:** Ideal for detailed designs and analysis, such as simulations and manufacturing.
- **Example:** Engine parts, mechanical components.



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Surface Model

- Surface models represent only the exterior surfaces of an object.
- **Uses:** Useful for visualizations and complex shapes that do not require internal detail.
- **Example:** Car body panels, aesthetic designs.



Wireframe Model

- Wireframe models are skeletal representations of 3D objects.
- **Uses:** Suitable for preliminary design stages and conceptual visualization.
- **Example:** Initial sketches, simple frameworks.

