

Precision in Motion: 3D Wheel Design Case Study | Achieving 99% Realism in Automotive Visualization

Project Overview

The goal of this project was to design and develop a highly detailed 3D wheel model that closely resembles real vehicle rims and wheels.

Challenges

The primary challenge was ensuring that the 3D model matched 99% of a real vehicle's rims and wheels. Achieving such a high level of accuracy required precision in design, texture, and measurements.

Solution & Execution

- ✓ **3D Modeling:** Industry-standard software like Blender and Maya was used to create an accurate and detailed wheel model.
- ✓ **Rendering & Detailing:** High-resolution rendering techniques were applied to enhance the final look.

Results & Impact

- 1 - The final 3D model closely resembled real car rims/wheels with 99% accuracy.
- 2 - Enhanced visualization capabilities for automotive designers and manufacturers.