

Fusion 360 Project – 1 Liter Bottle with Cap

Software Used: Autodesk Fusion 360 (Education License)

Project Type: 3D Modeling & Assembly

Category: Product Design / Packaging Design

Project Description

This project involves the complete 3D modeling and assembly of a 1-liter bottle with a threaded cap using Autodesk Fusion 360. The bottle was designed with proper neck threading, smooth curvature transitions, and realistic proportions suitable for manufacturing considerations.

Key Features

- Parametric bottle body design
- Threaded neck modeling
- Separate cap component design
- Assembly with proper alignment
- Realistic appearance rendering

Design Process

1. Created base sketch and revolved profile to generate bottle body.
2. Designed neck and applied threading.
3. Modeled cap as a separate component.
4. Assembled bottle and cap using assembly constraints.
5. Applied appearance materials for presentation.

Prepared by

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Mechanical Design | CAD Modeling | Product Development

Project Screenshots





