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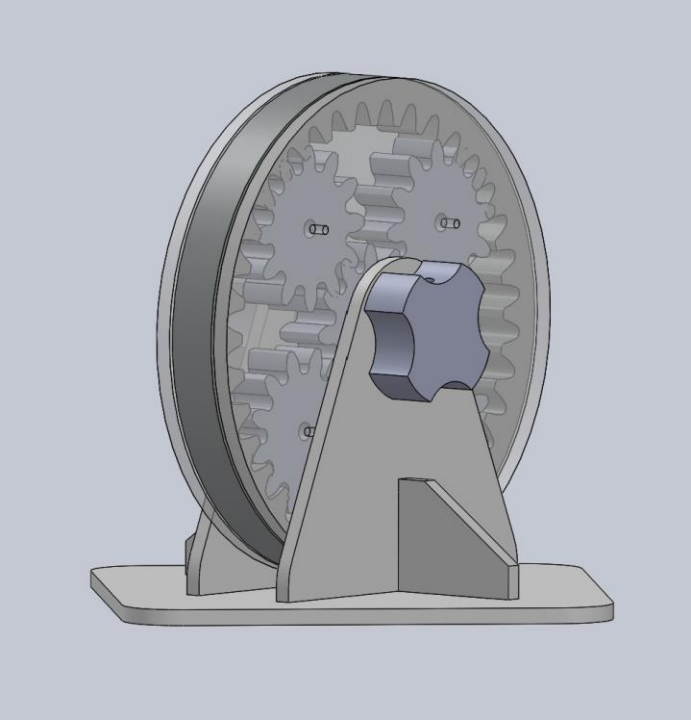
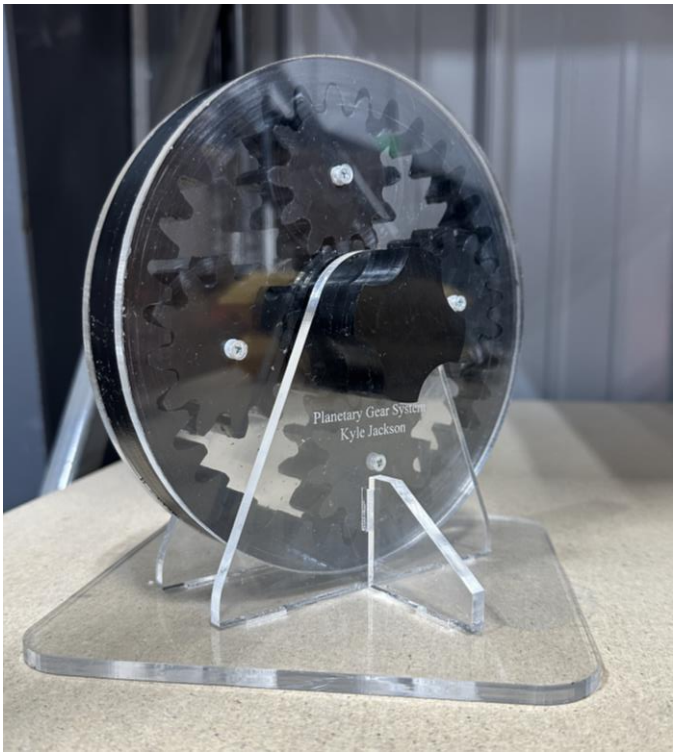
Planetary Gear System

The goal of this project was to design and fabricate a functional planetary gear system that demonstrated precise motion transfer and mechanical efficiency while showcasing high-quality machining and assembly practices.



Outcomes & Contributions: I designed and modeled the full gear assembly in SolidWorks, calculated tolerances, and machined the gears from high-density plastic using a CNC machine. I sourced all bearings, keyways, and screws independently to ensure a proper mechanical fit. The base and stand were laser-cut and engraved from acrylic.



Technical Details & Skills:

CNC machining and precision fabrication
Component sourcing and fit verification
Gear system modeling and tolerance analysis
Laser engraving and acrylic finishing