

# Pi Pie Yo-yo

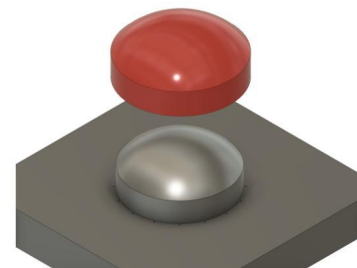
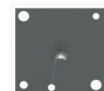
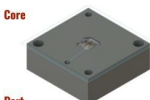
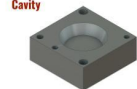
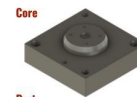
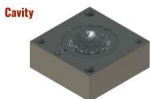
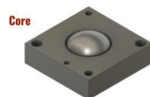
Fall 2021

**Objective:** Design a yo-yo with injection molded and thermoformed parts with the intention of mass manufacturing

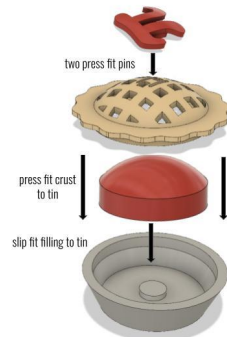
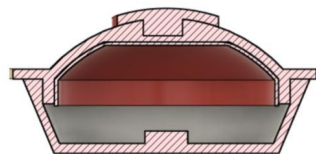
## Initial Sketching



## Parts and Molds



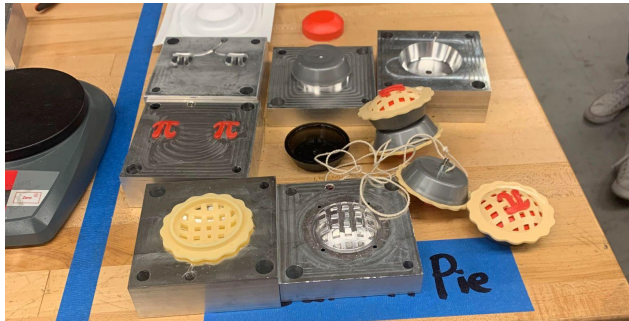
## Assembly



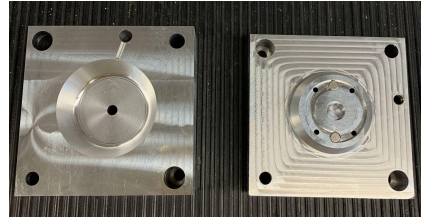
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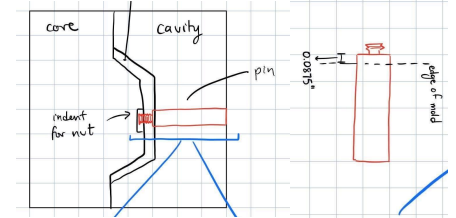
## Injection Molding and Press Fits



## Overmolded Parts



Washer for added weighted feel



**My Role:** On this team of 5 I served as a designer, Thermoforming expert, and CNC engineer. This year my team won the **manufacturing award** by manufacturing over 200 yo-yos.

**Tools Used:** Fusion 360 for collaborative CAD, CAM, CNC milling, Thermoforming, Injection molding, resin 3D printing