

Racket Buddy

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The Problem

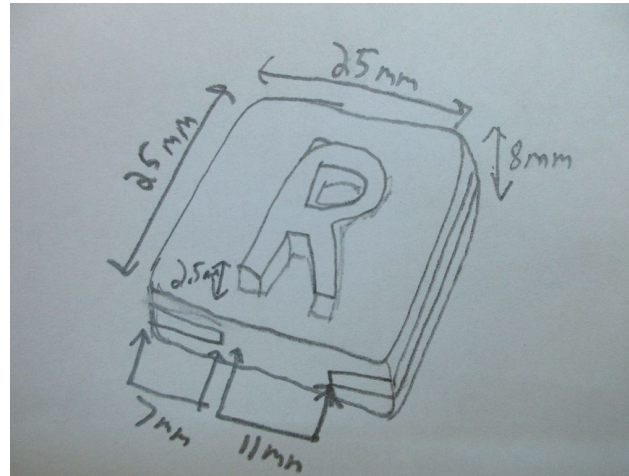


Research

- **Avenues Varsity Tennis Team**

- Do you play with a dampener?
- If not, why not?
- Interaction with the ball

- **Dampeners on the market**



Solution

How might we:

- How might we create a product that safely secures an accelerometer (while still being protective) onto a racket so that tennis players can better understand the mechanics of their swing?

User Needs:

- Committed tennis players who don't have a coach need an accessory that secures onto their racket string.

User Type:

- amateur (recreational) tennis players
- players with a budget

Criteria and Constraints

Constraints:

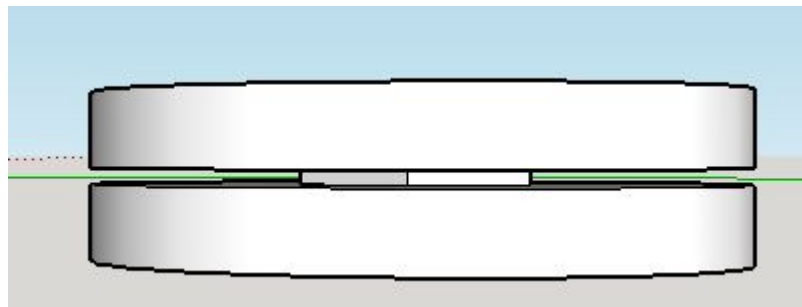
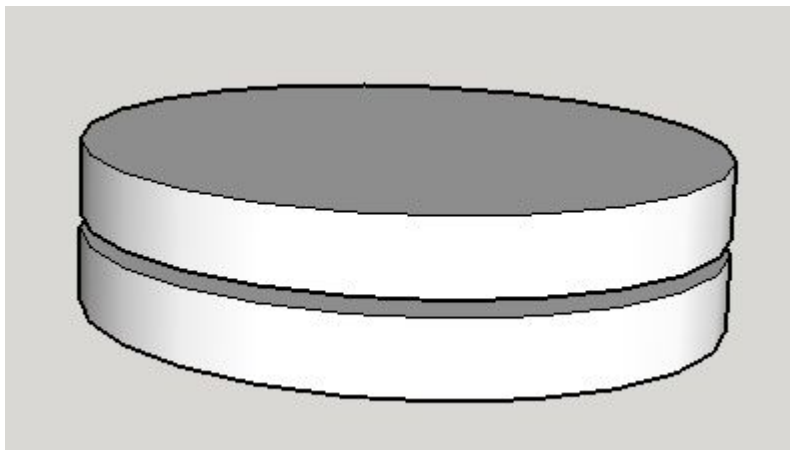
- New to SketchUp
- 3D printers
- time (new schedule)

Criteria:

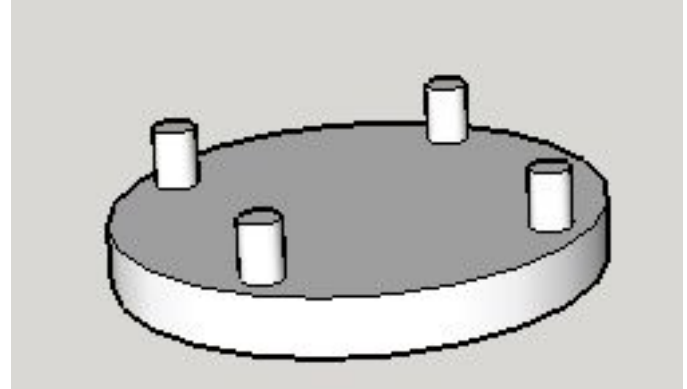
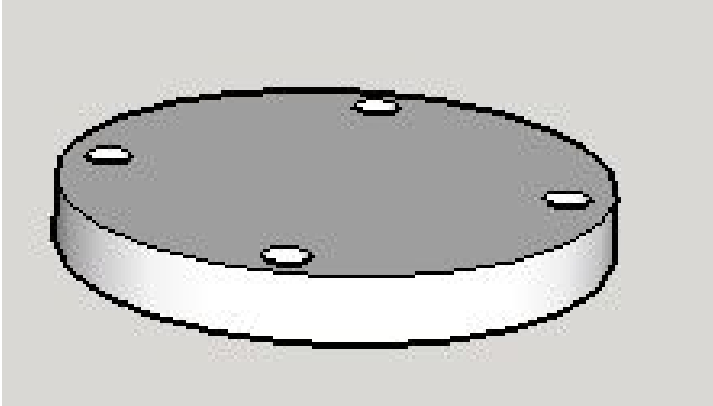
- have it clip on to the racket
- hold the accelerometer
- stay in place while racket is moving

3D Printing and Iterations

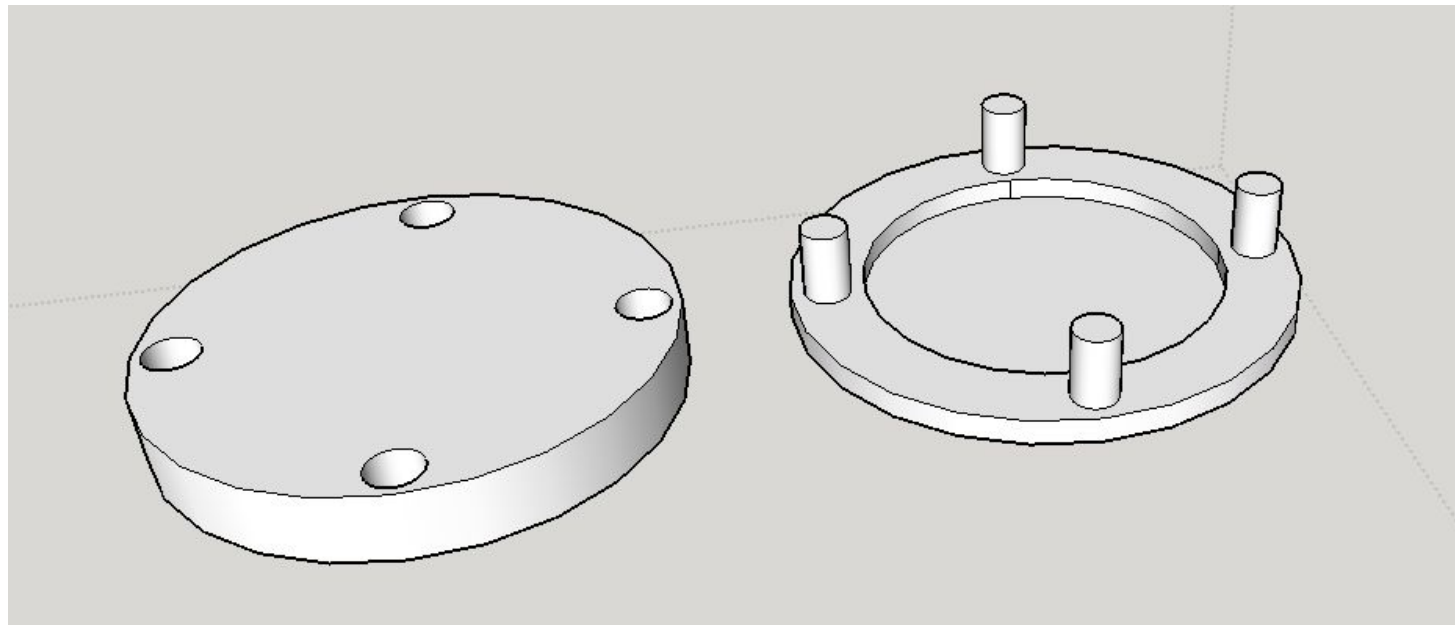
Design 1



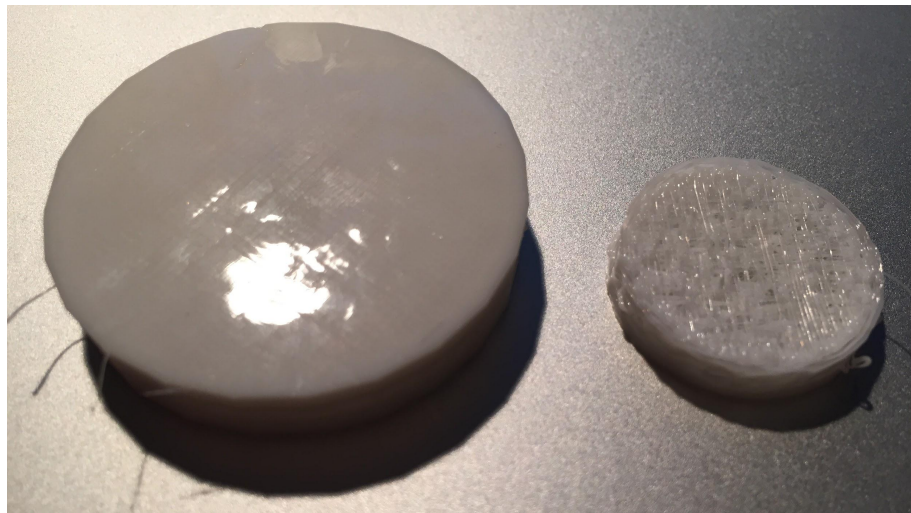
Design 2



Final Design



1



2



3



Challenges/Conclusion

Had I had more time and
what I would change....