



3D Printed Footwear

CS491 Computational Fabrication

By: Bat-Ochir Artur and Ryan Cruz

Intro

Inspiration



Goal

Shoe with:

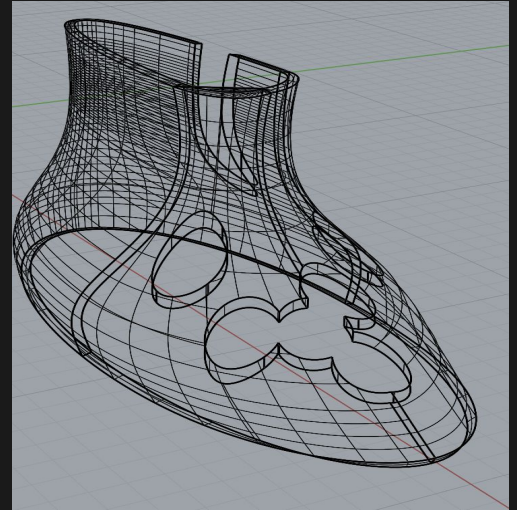
- Unique
- Modern
- Stylish design.

with comfortable material.

Process

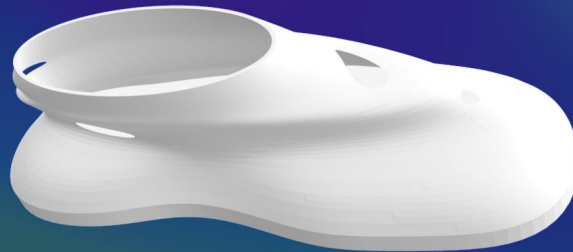
A lot of trial and error.

- InterpCrv: Tracing the sole design.
- Parametric Design: Creating elliptical curves with varying heights and sizes.
- Loft: Forming the inner and outer walls of the shoe.
- Boolean Difference: Shaping the walls and creating holes.
- Solid Union: Combining walls and sole into a single model.





Final Outcome





Reflection

We gained valuable insights such as:

- *Designing using creativity*
- *Teamwork and collaboration*
- *Material testing*

and so on.



Future work

- Work with different types of shoes
- Create a fully finished TPU model
- Use lattice techniques on sole

Compete with  and 



Thank you!