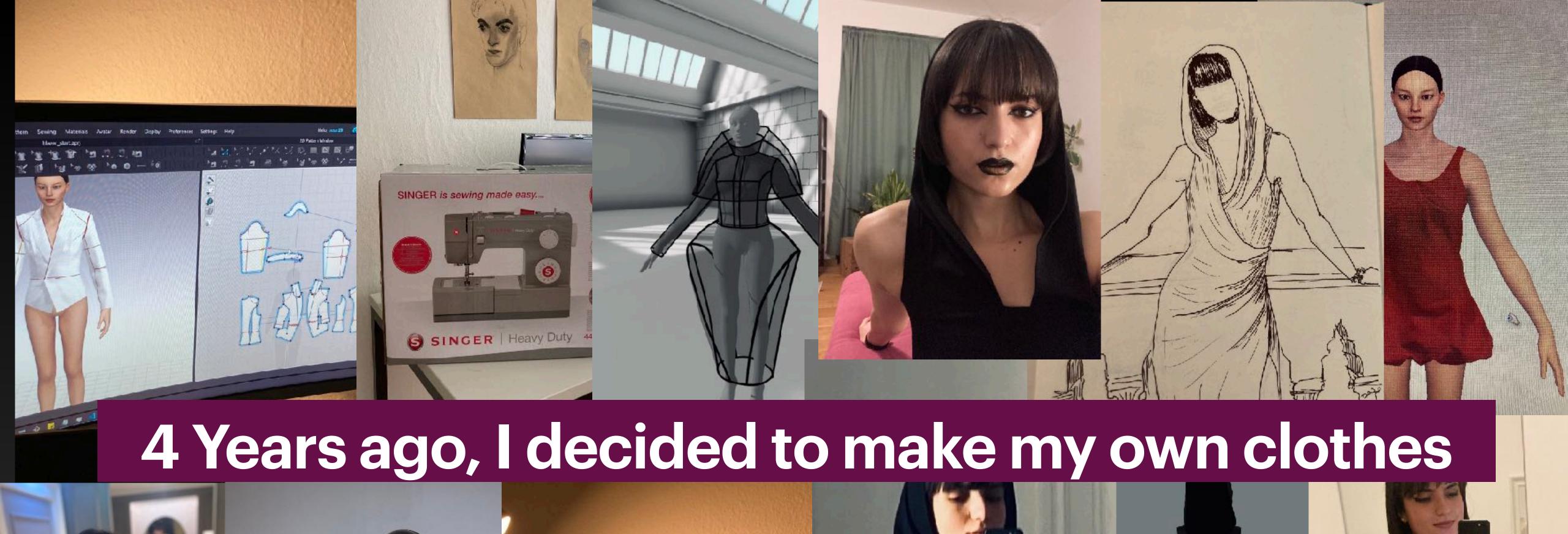
## La Vipère Custom clothes for Everyone



### Personal Introduction

- Nesrine Zarrouki
- Work: Lead Data Science and MLOps
- Study in Technical Universities
  - M.Sc. Mathematics.
  - B.Sc. Computer Engineering
- Passion: Visual Art and Design.

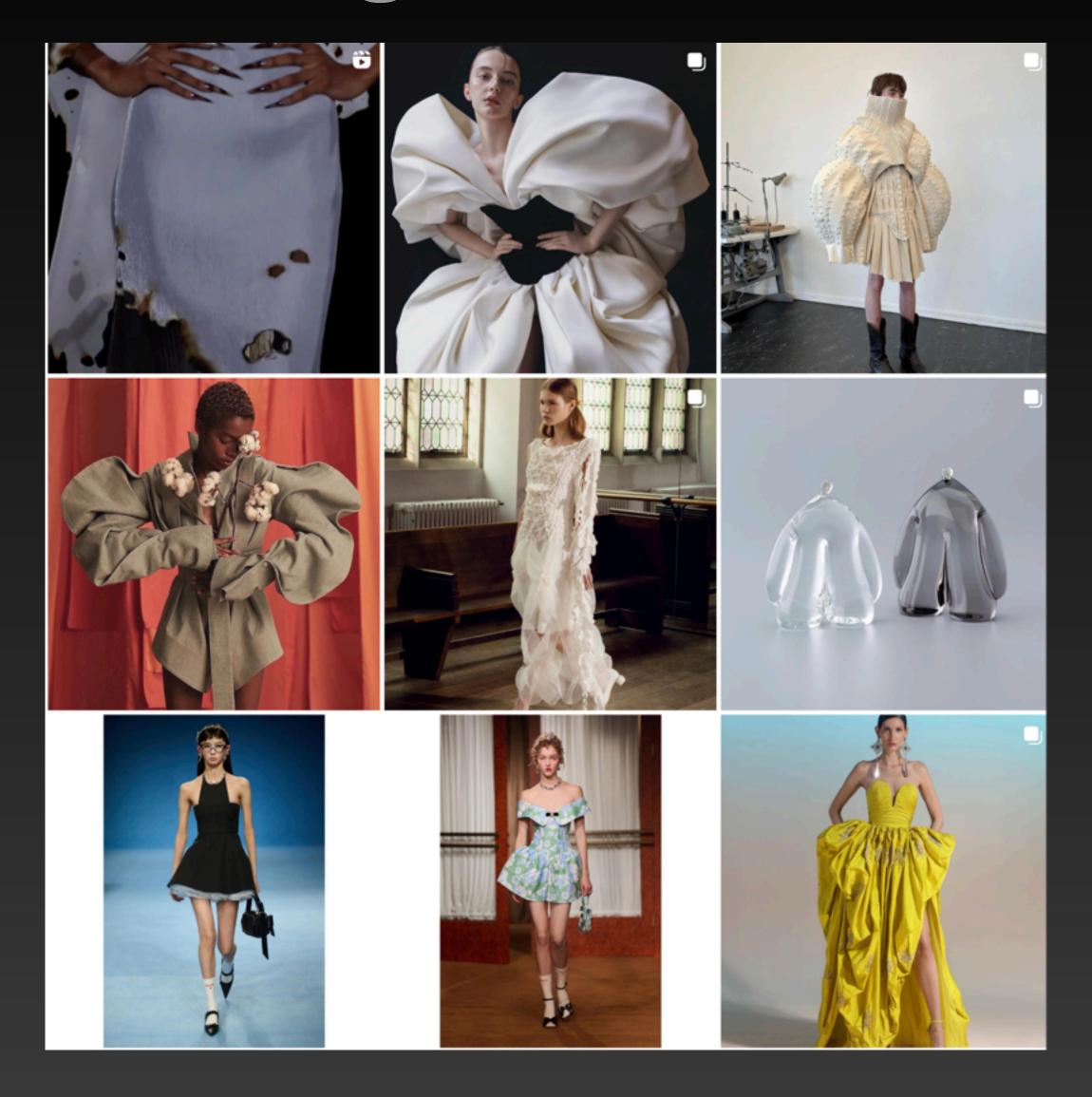
#### Story Time



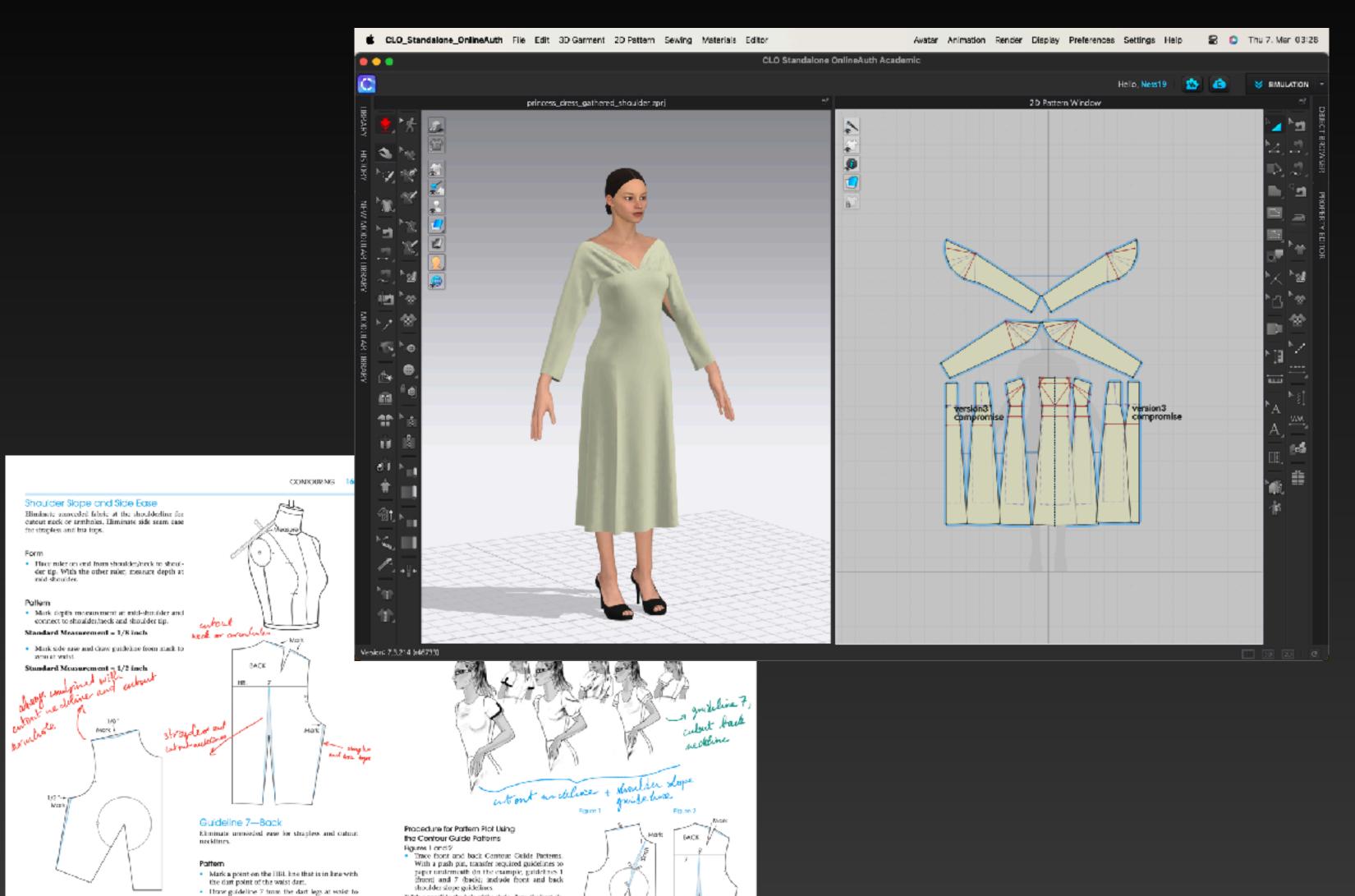


#### Problem Time

#### 1. Design Generation



#### 2. Pattern Construction according to Body Measurements



With a penali in the hale of the circle, draw the bast circumferance (all or part), when moded for controlling

 Remove pattern and connect guidelines. The straight guideline is always the cut line.

placement of styleiones.

Shoulder and side case are the same as for the

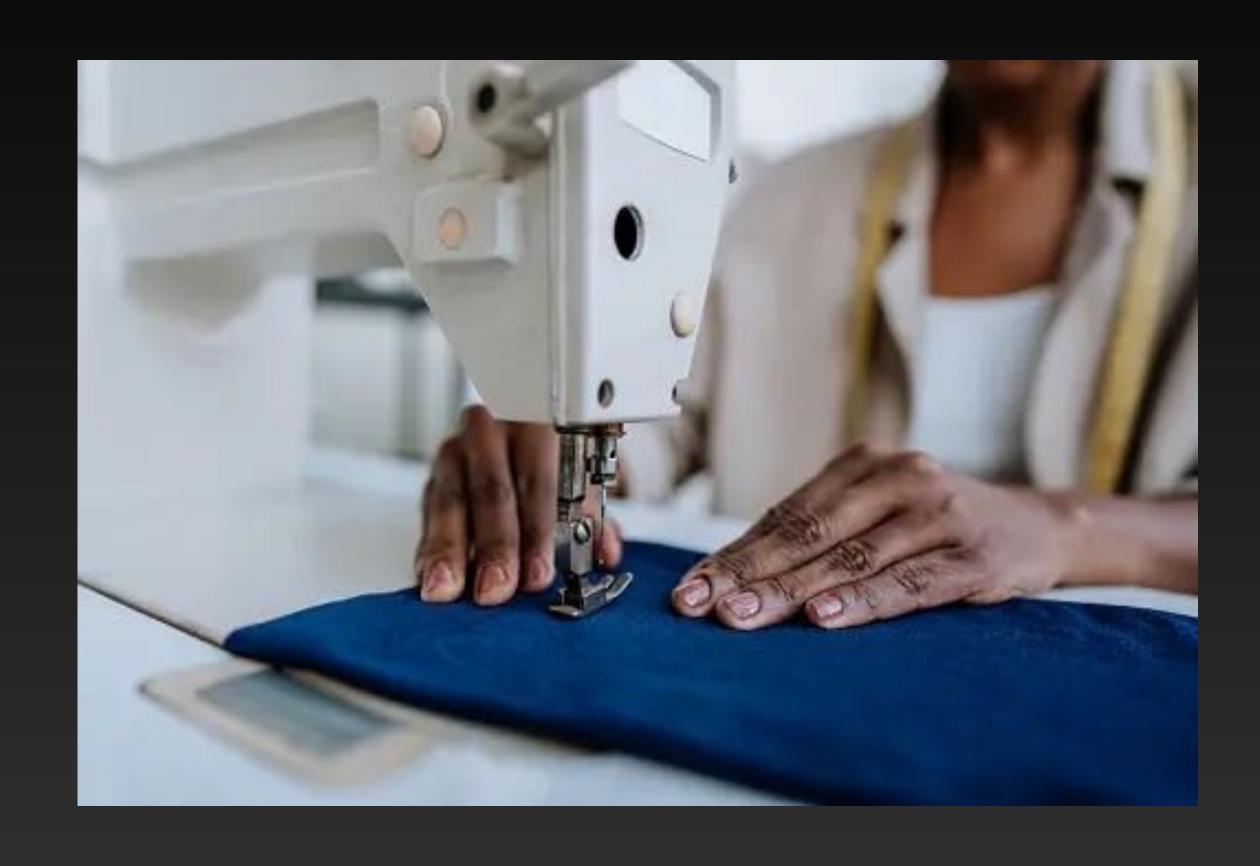
- Software cost: 50 eu/month.
- Initial learning: 2 years
- Time per pattern: 3-20h

#### 3. Pattern Cutting from Fabric



- Fabric sourcing: 5-150eu
- Fabric cutting: 30min-3h

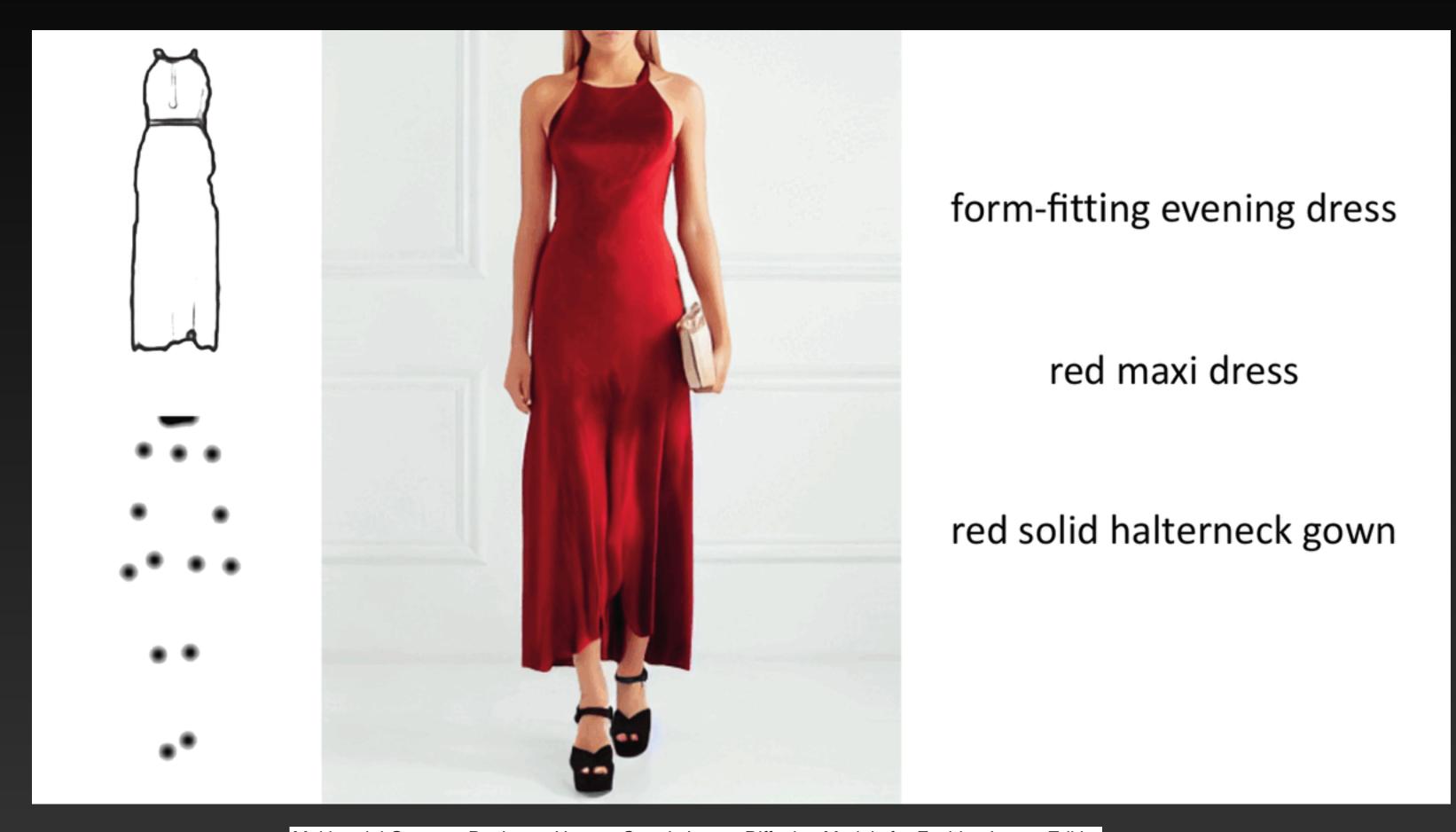
#### 4. Pattern Assembly (sewing)



Sewing: 3h-40h

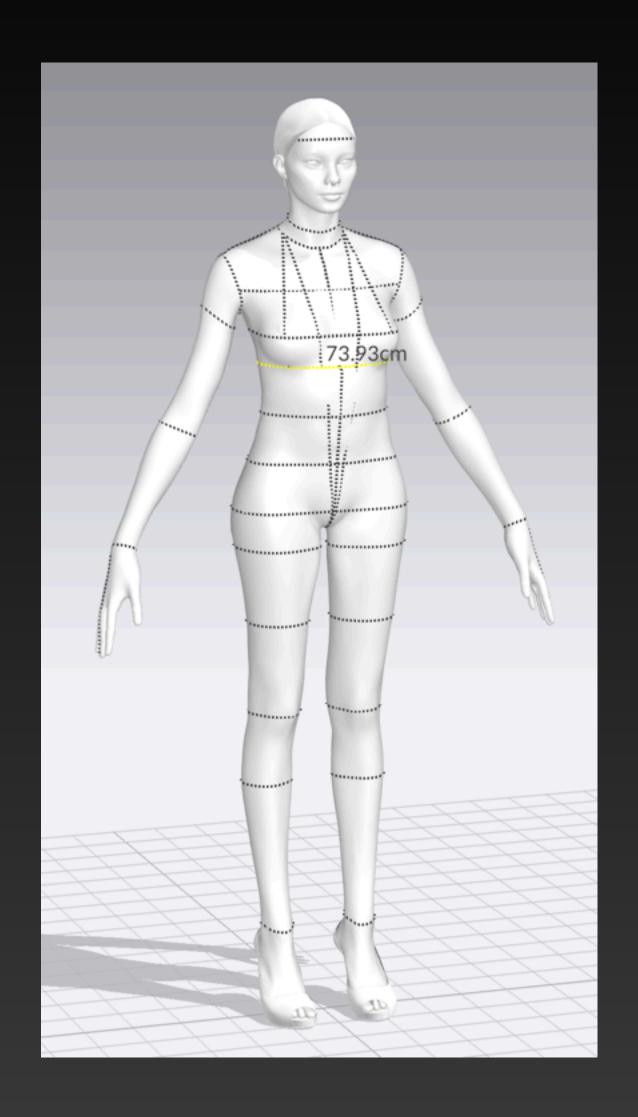
# Solution Time Automate the Design and Pattern Generation Cycle

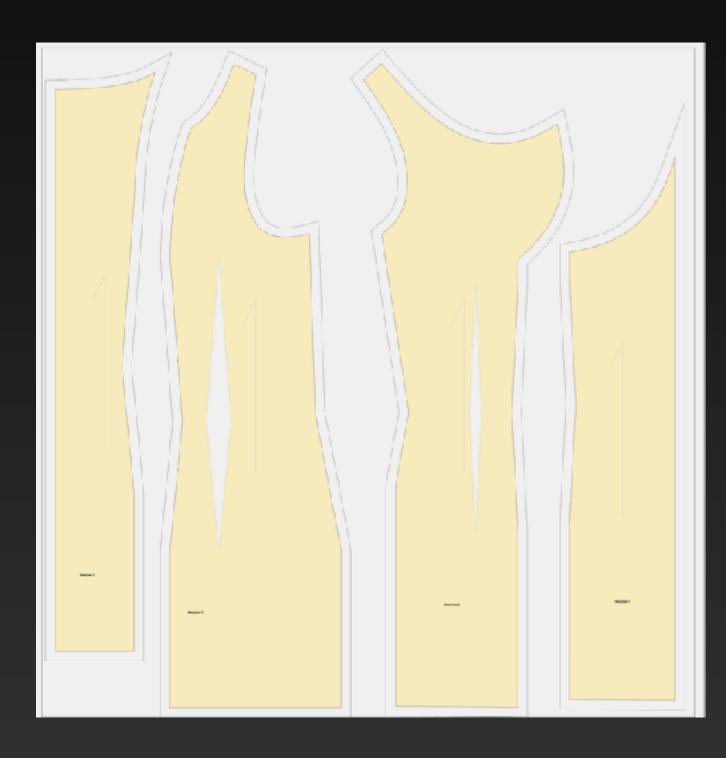
#### 1. Design Generation



Multimodal Garment Designer: Human-Centric Latent Diffusion Models for Fashion Image Editing

#### 2. Pattern Construction according to Body Measurements





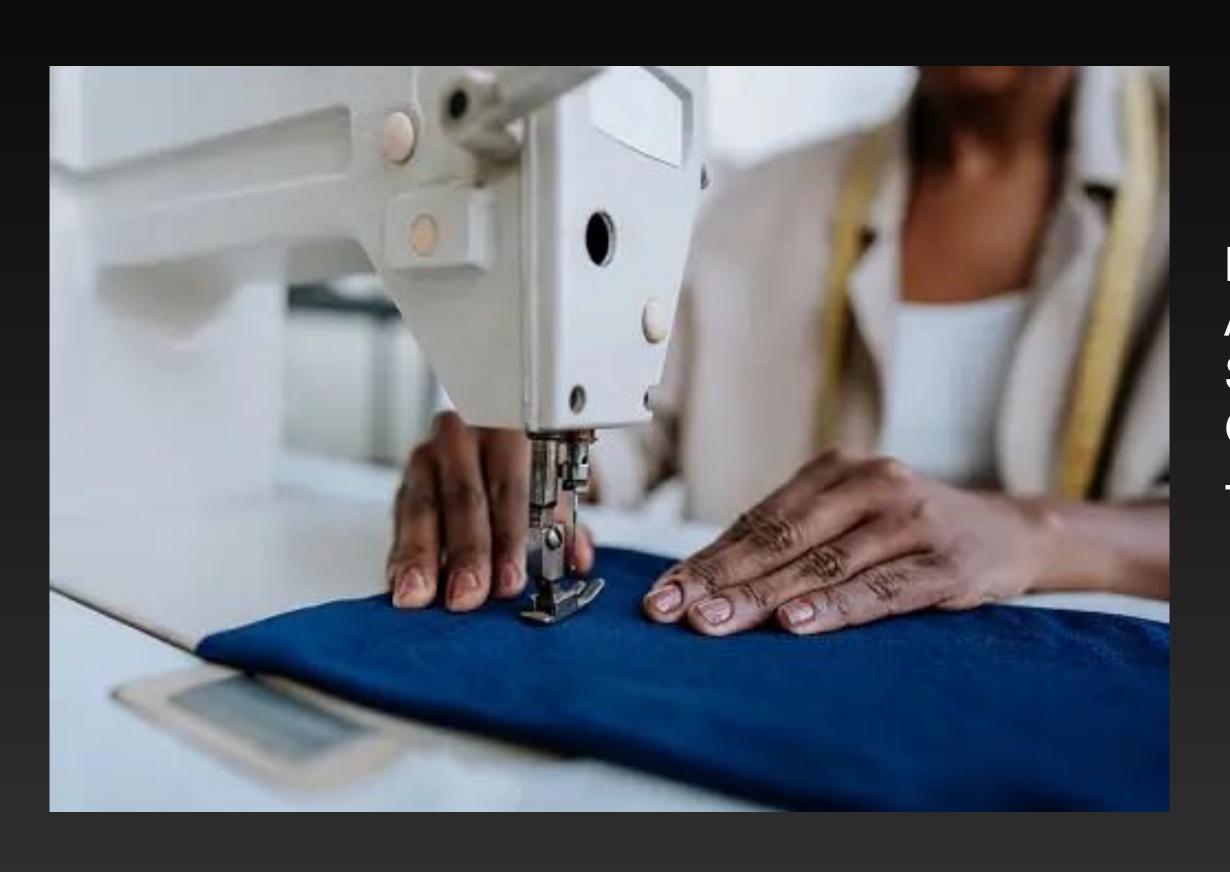
Construct patterns as a function of body measurements using Parametric Design.

#### 3. Pattern Cutting from Fabric



- Fabric sourcing: keep inventory of fabrics.
- Fabric cutting: use laser cutting machines for unique garment pieces creation.

#### 4. Pattern Assembly (sewing)



Local economy: uber for sewist
Any person with sewing machine and sewing
Skills can assemble the garments
Our system creates comprehensive assembly instructions
-> sustainable approach

#### Numbers Time

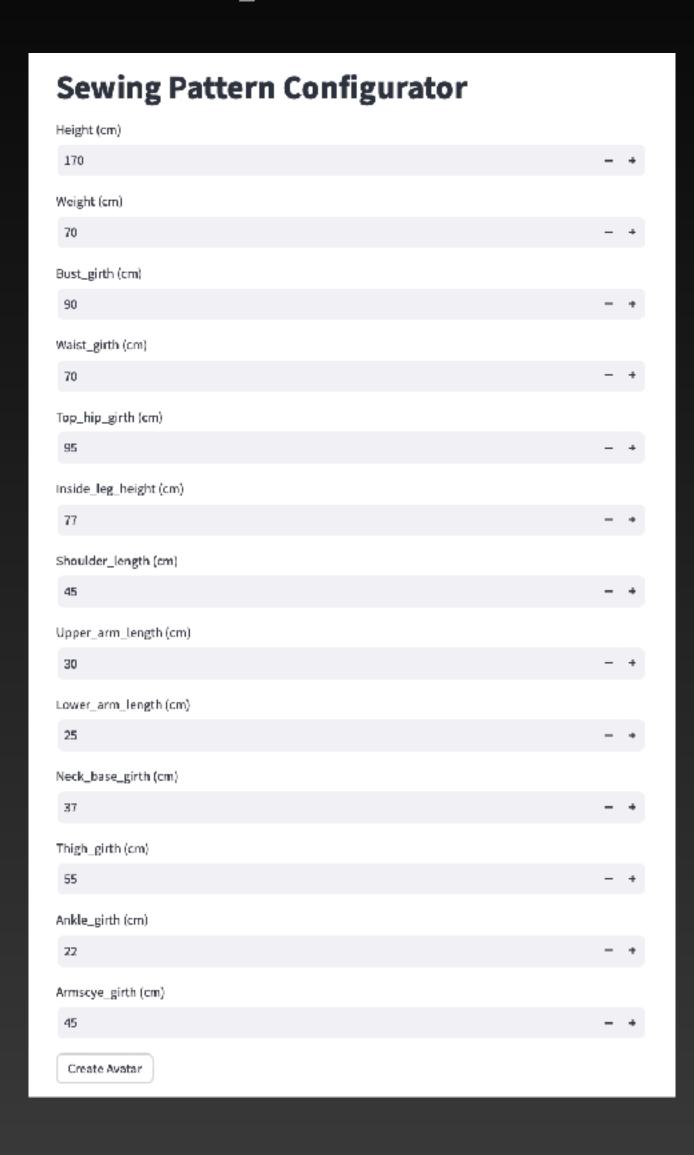
### "There is a 2.7 Billion USD projected personalisation market by 2027."

## "Gen Z and Gen Alpha value brands that are willing to collaborate with them and demand a more participatory role in brand development."

## We Are the first to Consider fully custom clothing for B2C

#### Demo Time

#### 1. Enter Body Measurements



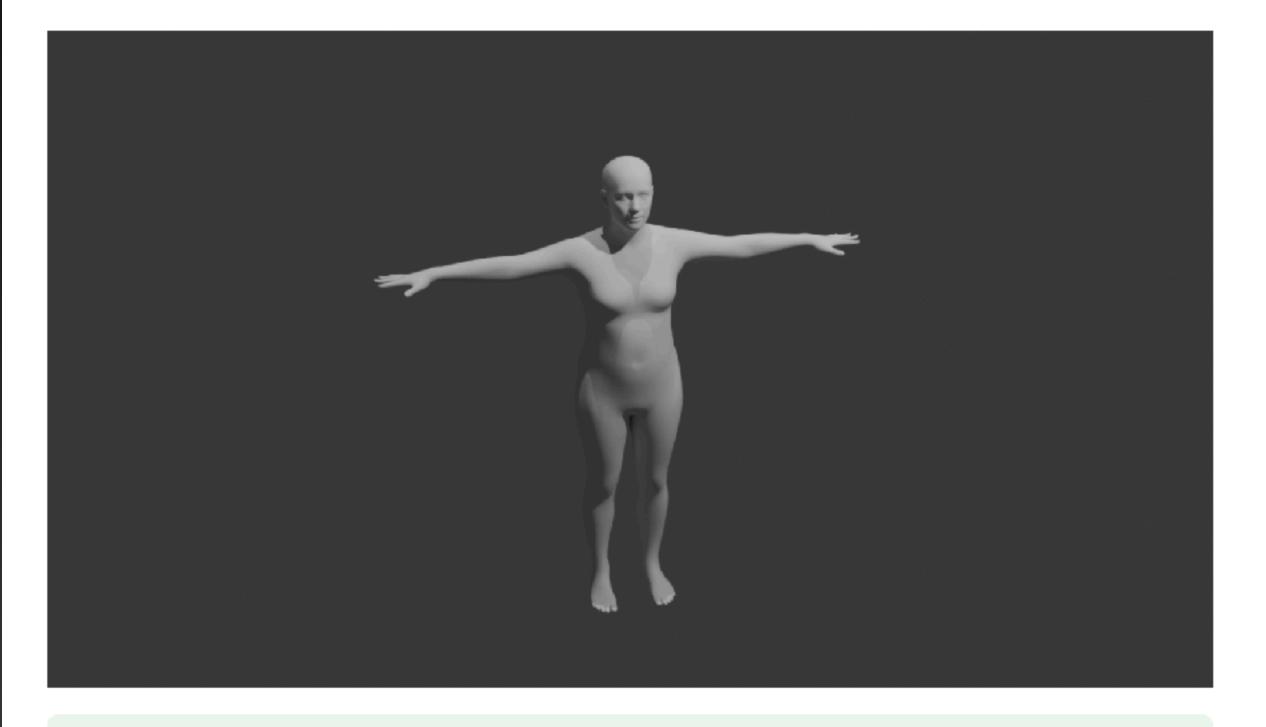
#### 2. Avatar is automatically created with custom measurements

Create Avatar

Avatar creation initiated with ID: 8beabc9e-9063-4012-9557-dcaeb348cfb8

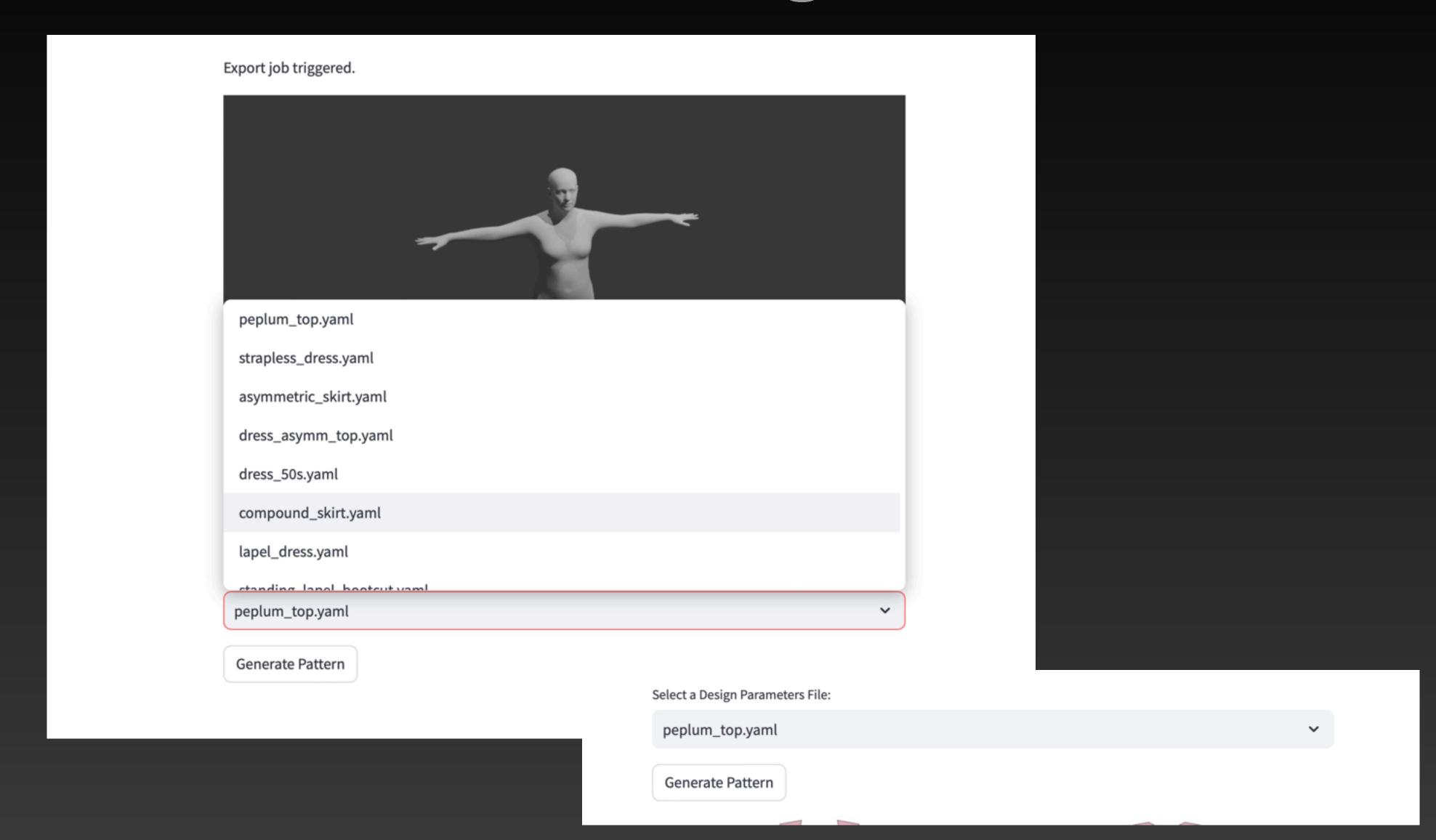
Avatar is ready for export.

Export job triggered.



Avatar downloaded successfully to exported\_avatar.obj.

#### 3. Select Design



#### 4. Pattern is Generated based on body measurements

