

Understanding Virtual Prototyping to Assess Fabric Performance

Project Specifics

- **Level:** Freshman
- **Suggested time for completion:** 2 weeks
- **Website page:** Fabric Performance Assessment

Learning Objectives

- Understand how to evaluate and predict fabric performance of textile products utilizing virtual prototyping software.
- Identify limitations and benefits of evaluating fabric performance of textile products utilizing virtual prototyping software
- Recognize how fabric and textile firms might use virtual prototyping technology.

Instructions

1. Choose Optitex.com, clo3d.com, or Browzwear.com and visit the developers' websites and identify clearly which website you have selected.
2. OPTION 1 (Preferred) Create a 3-5 minute informational video by answering the following questions related to fabric performance when utilizing virtual prototyping software:
 - What are some potential limitations and benefits of using virtual prototyping technology to analyze fabric performance and physical properties (drape, stretch, etc.)?
 - Describe at least 3 potential benefits.
 - Describe at least 3 potential limitations.
 - How does the software you selected overcome these limitations? Describe in detail the functionalities of the tool used to assess fabric performance.
 - What is the tool called?
 - What does the tool do?
 - How does it help to overcome the limitations you mentioned above?

- Your argument of why or why not the software can fully replace the physical assessment of fabric performance.
 - Give at least one specific reason.
 - Provide a compelling justification.

OPTION 2 If you prefer not to create a video, you may narrate a PowerPoint (it must be PowerPoint, not another program) and answer the above questions.

3. Write a bulleted one-page summary of the important key points you mentioned in the video or PowerPoint.
 - Please bullet points to capture your thoughts, but you may also include graphs, charts, visual depictions, etc. in addition to bullet points.

Competencies: critical thinking and creative problem solving