

# Sophie Dukes

Industrial Designer

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## Education

### Industrial Design | Virginia Tech | 3.57

Developed skills to analyze the needs of users and stakeholders to create products and systems that optimize a function, improve value, and incorporate aesthetics through design research, collaboration, ideation, physical and digital prototypes, renders, and presentation

## Experience

### Junior Industrial Designer at Rendyr Inc | Fall 2022 - Present

Creating and designing **documentation, manufacturing processes, and assembly jigs** to manufacture over **300 desktop laser cutters in house** as well as supporting the Rendyr team with various tasks to market and sell desktop laser cutters.

### On-Call Undergraduate Research Assistant at Fermilab National Accelerator Lab | Fall 2020 - 2021

Designing 3D **CAD models** of the Great Pyramid of Giza to be used in a GEANT simulations, designing muon detector housing, and **drafting a functional website** for the ultimate goal of using cosmic-ray muon radiography to discover the complete interior contents of the pyramid

### University of Virginia Student Intern | Summer 2020

**Designed a mobile platform** to provide access to electronics for installation, removal, and repair within tight quarters at a lab site

## Leadership/Honors

European Product Design Gold Award Winner

IDEA Awards Finalist

Industrial Designers Society of America Secretary at Virginia Tech

Moss Art Center ICAT Founding Ambassador

Member of the Collegiate Society of Leadership & Achievement

## Skills

### Digital

Figma  
Solidworks  
Autodesk Fusion 360  
Keyshot  
Rhino  
Onshape  
AutoCAD  
Adobe cc (*Ps, Ai, Id, Pr*)  
Sketchbook  
Lightburn

### Analogue

Rapid Prototyping  
Sketching  
Wood Shop  
Metal Shop  
Sewing  
Soldering

## Relevant Courses

Computer Aided Design  
Design Research  
Housing Textiles  
Minimal Space  
Seeking Sustainability  
Rapid Prototyping

## References

*Upon Request*