

# ABBY SCHEER

## Industrial Designer

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### WORK EXPERIENCE

**Cambridge Design Partnership/** Industrial Design Intern  
MAY 2021- AUG 2021, Raleigh NC

**Single-port, surgical robot project (Central Drive Unit Team)**

- Collected + analyzed anthropometric data
- Applied HE 75 Standards to design parameters
- Conducted rapid prototyping + user testing of ergonomic designs
- Collaborated with mechanical + electrical engineers

**Other**

- Created pre-formative usability IFUs
- Designed + prototyped injectable flat packaging
- Participated in early concept exploration for HIV injectable home kit

**Trig /** Industrial Design Intern  
FEB 2021- April 2021, Raleigh NC

**Soft Goods Client Project**

- Conducted ideation + concept exploration
- Conducted material exploration and specification
- Executed flat pattern development
- Fabricated + tested prototypes (client facing)

**Internship Project - Concept Exploration Modalities**

- Defined project problem space and conducted early phase research
- Prepared asynchronous problem presentation via video format
- Created virtual boards with challenge questions and visuals
- Facilitated concept exploration sessions with entire Trig team
- Synthesized concept exploration and selected two directions
- Created testable illustration concepts for client evaluation

**Decorative Fabrics of America /** Senior Textile Designer  
JAN - JUL 2019, Burlington NC

**Vertical Jacquard Manufacturer**

- Led the design and expansion of high performance seating, panel, wall-covering product lines for corporate + hospitality
- Created artwork and provided art direction
- Collaborated with sales + clients on every project
- Engineered weave structure and fiber specifications
- Developed new yarn + dye colors
- Adhered to industry testing standards
- Led R+D warp, finish, structure development

### REFERENCES

**Kelly Umstead**

Assistant Prof of ID/Adjunct BME  
kaumstead@ncsu.edu

**Paul Smitheman**

Sr. Industrial Designer  
paul.smitheman@cambridge-design.com

### EDUCATION

**North Carolina State University**  
Masters of Industrial Design  
EST. GRADUATION MAY 2022

**Parsons School of Design**  
Design Leadership + Business Certificate  
JAN 2018 - DEC 2018

**Rhode Island School of Design**  
BFA Textile Design  
Honors, English Concentration  
SEPT 2008 - JUNE 2012

### SKILLS

**Digital:**

Solidworks (+ surfacing) • Keyshot • Adobe Creative Suite

**Design:**

Hand rendering • Rapid prototyping • 3D printing • Model making • CNC • Materials + processes • DFM • MIG welding • Gold + silver soldering • Milling • Lathing • Soft goods construction

**Human Factors Psychology Research:**

Semi-structured interviews • Task analysis + user needs analysis • Cognitive walkthroughs • Heuristic evaluations • Workshop facilitation • Testable prototyping • Validation (methods + testing) • Analysis of performance outcomes • AAMI/ANSI HE-75 standards

**Biomedical Product Development + Management:**

Verification + validation • Risk documentation • IP analysis • dFMEA • Design history files • Packaging + labeling

**Textiles:**

Woven + knitted engineering structures • Fibers + finishes • Yarn development • Vertical manufacturing • Customer + sales force Interaction • Sales + marketing collaboration • Pattern + color