

# ABBY SCHEER

Industrial Designer

abigailscheer.com

abigailscheer@gmail.com

Raleigh NC

402.540.6923



## EDUCATION

### North Carolina State University

Masters of Industrial Design

Aug 2019- est. May 2022

### Parsons School of Design

Design Leadership + Business

Online Certificate

Jan 2018- Dec 2018

### Rhode Island School of Design

BFA Textile Design / Honors

English Concentration

Sept 2008- June 2012

## SKILLS (DESIGN)

- Solidworks (+ surfacing)
- Keyshot
- Adobe Creative Suite
- Hand rendering
- Rapid prototyping
- 3D printing + CNC
- Materials + processes
- DFM
- MIG welding
- Gold + silver soldering
- Metal Machining
- Soft goods construction
- Qualitative research methods
- Project management

## WORK EXPERIENCE

### Industrial Design / HF Intern

Cambridge Design Partnership / May 2021- Aug 2021

Raleigh, NC

Integrated into the human factors team developing a single-port, surgical robot. Active contributor to the central drive unit team and worked closely with industrial design, human factors, mechanical, and electrical teams. Also supported other projects that included injectable home kit and spine diagnostics.

- Applied HE 75 Standards to design parameters
- Rapid prototyping / CAD / user testing of touch points
- Created pre-formative usability IFUs
- Flat packaging designs
- Early concept exploration

### Industrial Design Intern

Trig / Feb 2021- April 2021

Raleigh, NC

Active contributor to the design and development team for 3 client projects. Internship project explored expiratory muscle strength training devices (EMST) for dysphagia patients. Executed concept exploration modalities through early phase research, problem space presentations, and concept exploration facilitation.

- Flat pattern development
- Client-facing prototype fabrication
- Created asynchronous problem space presentations
- Facilitated concept exploration sessions
- Synthesized team's concept exploration
- Created testable illustration concepts for evaluation

### Senior Textile Designer

Decorative Fabrics of America / Jan - July 2019

Burlington, NC

Led the expansion of the contract textile division and worked directly with clients, sales, and manufacturing teams. Developed new yarn colors for all product categories.

- Developed artwork / weave engineering / fiber specification
- Quality control of samples / production / testing
- R + D of warps and structure development for jacquard and dobby.

# ABBY SCHEER

Industrial Designer

abigailscheer.com  
abigailscheer@gmail.com  
Raleigh NC  
402.540.6923



## SKILLS (Human Factors)

- Semi-structured interviews
- Task + user needs analysis
- Cognitive walkthroughs
- Heuristic evaluations
- Concept exploration facilitation
- Testable prototyping
- Validation (methods + testing)
- Performance outcomes analysis
- Cognitive psychology
- AAMI/ANSI HE-75 standards
- Developing team mental models

## SKILLS (Biomedical R+D)

- Verification + validation
- Risk documentation
- IP analysis
- dFMEA
- Design history file structures
- Packaging + labeling
- Developing visual IFUs

## SKILLS (Textiles)

- Art direction
- Woven + knitted engineering structures
- Fibers + finishes / yarn development
- Vertical manufacturing processes
- Customer + sales + marketing
- Pattern + color
- Product placement + pricing

## WORK EXPERIENCE

### Textile Designer

Valdese Weavers / Dec 2012- Nov 2019  
Valdese, NC

Increased sales and product offerings in the high-end corporate interiors textile division. Led R+D projects that were pitched to clients and sold into marketplace. Served as art director and led distribution of quarterly collections for targeted customer segments.

- Divisions: seating, panel, wall covering
- Developed weave structure and fibers
- Developed new yarn + dye colors
- Created artwork + concepts for in-house line and clients
- Cross functional communication between design / client / sales
- Responsible for production of samples and initial yardage
- Responsible for post production troubleshooting and quality
- R+D concepts included 4 way stretch yarn development
- Clients included MillerKnoll, Steelcase, Haworth, Bernhardt Furniture

### Technical Textiles Designer (freelance)

West Elm / October 2012- Nov 2012  
Brooklyn, NY

Developed specification documentation for all pillows, throws, and bath textiles. Responsible for communications between design + agents/vendors both domestically and abroad. Maintained quality of all incoming and outgoing sample products during development cycles.

## AWARDS + ACHIEVEMENTS

### TraCS Stakeholder Grant

NC TraCS Institute / Oct 2021

- \$2,000 Award to reimburse individual stakeholders for their participation and time during product development
- Requires translational research teams to engage + education stakeholder group throughout product development cycle.

### VentureWell Innovator Stipend

VentureWell / Feb 2022

- \$1,500 Award to offset expenses related to continued development of intellectual property and entrepreneurship endeavors.
- Award targeted toward students who are underrepresented in patenting and entrepreneurship.