Elizabeth Meiklejohn

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Experience

unspun, Emeryville, CA
Textile Engineering Lead, 2024-present
Managed a team of engineers and technicians scaling up 3D weaving technology, led validation testing of product requirements and created next-gen 3D woven prototypes.
Textile Engineer, 2023-2024
Developed fabrics and led production of first-to-market 3D woven products using Vega™ manufacturing platform.

University of Colorado Boulder, Boulder, CO
Experimental Weaver-in-Residence, 2023

Rhode Island School of Design, Providence, RI
Research Assistant, Virtual Textiles Research Group, 2021-2023
Assistant Manager, Co-Works Research Lab, 2022-2023

Massachusetts Institute of Technology, Cambridge, MA
Research Intern, Fibers Group, 2021

Visible Futures Lab at School of Visual Arts, New York, NY
Manager, 2019-2020
Prototyping Specialist, 2019
Lab Assistant, 2018-2019

Open Style Lab, New York, NY
Design Fellow, 2019

Autodesk, San Francisco, CA
Pier 9 Resident, 2016-2018

Levi Strauss & Co., San Francisco, CA
Assistant Innovation Designer, 2015-2018
Assistant Designer, Men's Knits and Sweaters, 2014-2015

Education

Rhode Island School of Design
MFA Textiles, 2022
BFA Apparel Design, 2014

Skills

Design and programming of woven fabrics: floor loom, dobby, Jacquard, multi-layer and 3D woven structures

Operation of Stäubli and Tronrud TC-2 jacquard looms and R&D stage textile machinery

Technical project management and product development

Expertise in textile fibers, yarns, dyes and test methods

Apparel and soft goods design, patterning and construction

Adobe Creative Suite, Rhino, Grasshopper, Python, CLO3D

Publications

Design Bookkeeping: Making Practice Intelligible through a Managerial Lens. Meiklejohn, E., Devendorf, L., Posch, I. 2024.

Feeling Fabrics: Prototyping Sensory Experiences with Textiles and Digital Materials. Meiklejohn, E. et. al. 2023.

Woven Behavior and Ornamentation: Simulation-Assisted Design and Application of Self-Shaping Woven Textiles. Meiklejohn, E. et al. 2022.

Single fibre enables acoustic fabrics via nanometre-scale vibrations. Yan, W. et al. 2022.

Rapid Sketching of Woven Textile Behavior: The Experimental Use of Parametric Modeling and Interactive Simulation in the Weaving Process. Meiklejohn, E., Hagan, B., Ko, J. 2022.

Hack-Ability: Using Co-Design to Develop an Accessible Toolkit for Adding Pockets to Garments. Jones, L. et al. 2020.

Exhibitions

Useful Work vs Useless Toil, 2024
The Ink Shop, Ithaca, NY

Textile Intersections, 2023
Loughborough University, London, UK

Incremental Growth, 2022
Sol Koffler Gallery, Providence, RI

Beyond Punch Cards, 2019
form + concept, Santa Fe, NM

Vanish Extra, 2019
Assembly Room, New York, NY

Teaching & Lectures

A Creative Life, 2025
Problem Library, San Francisco, CA

Experimental Weaving Lecture Series, 2023
University of Colorado Boulder, Boulder, CO

Jacquard Weaving on the TC-1 Loom, 2023
Rhode Island School of Design, Providence, RI

Prototyping Textile Behavior, 2022
Rhode Island School of Design, Providence, RI

Collapse Symposium, 2022
Rhode Island School of Design, Providence, RI

Computing Fabrics 3.173, 2021-2022
Massachusetts Institute of Technology, Cambridge, MA