Carly Mick

Educator, Manufacturing and Prototyping Specialist, Textile artist
carlymick@gmail.com

EDUCATION

North Carolina State University, Raleigh, NC — MS

Attended the College of Textiles, with a focus on textile technology and manufacturing management.

Thesis: "The Effects of Digital Printers and Cutters on the Value Stream of United States, Textile Based Manufacturing", North Carolina State University advised by Andre West, Trevor Little, and A. Blanton Godfrey

Portland State University, Portland, OR — *BS*

Attended the Department of Mathematics and Statistics, with a focus on number theory and system design

TEACHING EXPERIENCE

University of Oregon, Portland, OR — *Visiting Instructor and Interim Director of Sport Product Design Graduate Program*

2023 - PRESENT

Interim Director managing student success, budgets, personnel, and preparations for the move to the new campus. Instructor for the Sports Product Design graduate program, specializing in prototyping, softgoods development, and product design

University of Oregon, Portland, OR — *Pro Tem Instructor*

2021 - 2023

Instructor for the Sports Product Design graduate program, specializing in prototyping, softgoods development, and product design

Pacific Northwest College of Art: Applied Craft and Design, Portland, OR — *Graduate mentor*

2021 - 2022

Served as an advocate, critic, and colleague for the MFA candidate encouraging a self-designed, independent inquiry while supporting the individual candidate's thesis needs.

NCSU Craft Center, Raleigh, NC — *Sewing and Pattern Drafting Instructor*

2013 - 2015

Developed and implemented courses and curriculum for students and community members to learn basic sewing and pattern drafting techniques.

RELATED PROFESSIONAL EXPERIENCE

Skyscrape, Portland, OR — *Director of Manufacturing Innovation*

Oct 2019 - Sept 2022

Focused on creating novel and defensible fabric technology that is thermally responsive. Team leader for technical fabric development and manufacturing process development. Developed manufacturing capabilities and supply chain for large scale production. Developed new testing standards and procedures. Project and staff manager, handling personnel, data, and information management. Spearheaded collaboration with manufacturers and brands such as Ralph Lauren and the US Olympic committee.

Keen, Portland, OR — *Senior Innovation Manager*

2017 - 2019

Lead the development of advanced footwear manufacturing, utilizing technologies including injection molding, weaving, and knitting. Focused on zero inventory production and cross-functional research projects that combined products, materials, machines, and processes. Built multidisciplinary coalitions to create systems-based efficiencies which optimize the flow of materials and information through supply chain, manufacturing, and development.

VF Global Innovation Center, Alameda, CA — *Advanced Manufacturing Project Manager*

2015 - 2017

Designed and implemented an 'on-demand manufacturing' facility to manufacture finished goods for a variety of brands in the VF family, using cutting edge textile technologies. Analyzed and recommended textile technology for internal brand projects for The North Face, Vans, and Smartwool including an on-demand 3D shoe printing process for Vans that launched in 2017.

NCSU College of Textiles, Raleigh, NC — *Research Assistant*

2013 - 2015

Partnered with the Walmart Innovation Grant as part of their Made in America initiative. Executed data driven research exploring the application of digital technology solutions across the entire textiles supply chain with a focus on digital printing, cutting, and data driven manufacturing.

Smith and Bybee, Portland, OR — *Founder and Apparel Designer*

2009 - 2011

Designed and manufactured apparel for a boutique menswear line, in addition to sales, marketing, sourcing, branding, and prototyping.

Terrazign Inc., Portland, OR — *Prototype and Process Engineer*

2007 - 2013

Technical hands-on prototyping and manufacturing process development for large entities, including Nike and NASA . Operated a variety of equipment including CNC- based cutting and routing machines. Maintained and operated the softgoods creation lab, including a variety of sewing and bonding equipment. Facilitated collaboration and communication between designers, engineers and marketing teams. Helped clients identify characteristics of designs, construction processes, and material specs that would move their product development process forward. Created and communicated technical designs that facilitated the implementation of innovative manufacturing. Actively engaged in sourcing, testing, research, and development of materials, molds, tooling, and

footwear, to appropriately match a soft-product's capacity with client's needs.

Beckel Canvas, Portland, OR — *Production Sewing Manager*

2004 - 2007

Managed and organized the sewing assembly process for canvas tent manufacturing including both project and personnel management. Operated and maintained production sewing equipment.

SHOWS AND NOTEWORTHY PROJECTS

2023 - *Border collection,* Frances May, Portland OR

Exhibit of handwoven rugs showcasing an exploration of visual depth through dye and weaving techniques.

2022 - *Skyscrape and Ralph Lauren collaboration,* Opening Ceremony of the Winter Olympics, Beijing

Thermally responsive jackets design and produced in partnership with Ralph Lauren for Team USA

2018 - *Launch of the VF Advanced Manufacturing facility,* Secret Location NC

On demand manufacturing facility, designed and implemented by my team, using cutting edge robotic and automated equipment to product a variety of softgoods for VF brands

2017 - *Launch of Vans Customs,* Vans Online

Printing capabilities for preconstructed footwear based on Vans customer's artwork. Manufacturing research and development conducted by me in partnership with Jabil.

2015 - *Thesis: "The Effects of Digital Printers and Cutters on the Value Stream of United States, Textile Based, and Manufacturing",* North Carolina State University

An in depth research on the supply chain of a Walmart supplier and the implications of investing in digital technology to promote domestic manufacturing

2012 - *Content,* Ace Hotel, Portland OR

A geometric exploration of textile based world building

2011 - *Content,* Ace Hotel, Portland OR

Indigo dyed womens workwear through the lens of Soviet Futurism

2010 - *Content,* Ace Hotel, Portland OR

Showcase of Smith and Bybee spring collection

2009 - *Forecast, Portland Mercury's 5th annual fashion show,* The Armory, Portland OR

Runway show and launch of the menswear line Smith and Bybee

2009 - Fatigue Studies, NASA Huston

Built weighted apparel that could be worn by humans sized from the 5th to 95th percentile to be used to simulate fatigue after extended space travel. The goal was to simulate human capabilities after arriving on Mars

2007 - *First NASA treadmill harness lanches to the ISS*, Low Earth Orbit

Nasa launches the first of 30 harness, developed with Terrazign and sewn by me, to the International Space Station

INVITED SPEAKER

2023 -Panel speaker- Struktur: *Re-Energizing The Textile Industry For The Future*

2021 -Panel speaker- *Portland Textile Month: Materials Innovation and New Traditions Panel*

2019 -Podcast Interviewee- *Bantam tools:The Edge-Season 3/Episode 1: Carly Mick: Kestrel Materials, Soft Goods & Textiles Manufacturing*

2018 -Panel speaker- *Portland's 2nd Annual Sustainable Fashion Forum*