

Mike Heiss

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Education **ArtCenter College of Design** *April 2020*
MS Industrial Design

University of Wisconsin-Madison *2009*
BS Mechanical Engineering with honors in the liberal arts
BS Math

Experience **Machine Histories**

Design Intern, September 2019 - December 2019
Created CNC-ready patterns for architectural installations using Rhino and Grasshopper. Generated tensile structure concepts using Kangaroo, then simulated using finite element analysis (FEA) to validate structural integrity.

Steelcase

Freelance Designer, June 2019 - August 2019
Formed 3D geometries of surface textures for furniture new product development using Grasshopper. Delivered renders for presentations and STL files for 3D printing.

Seattle Manufacturing Corporation

Design Intern, May 2019 - July 2019
Designed a new category of rope interface devices for urban and mountain technical rescue. Fabricated and tested prototypes, then analyzed data and video recordings to generate new concepts.

Haworth Educational Partnership with ArtCenter

Designer, September 2018 - January 2019
Researched behavior trends among knowledge workers. Developed outdoor furniture concepts guided by observations and insights. Selected as finalist and presented to Haworth Chairman, President and CEO at corporate headquarters.

Keurig Green Mountain

Design Engineer II, 2013 - 2017
Designed and prototyped components of K2.0 single-serve coffee brewer. Created automated test fixtures and data analysis scripts to evaluate system performance, reliability, and safety. Collaborated with contract manufacturers in China and Malaysia and Keurig stakeholders in marketing, product supply, quality control, and manufacturing from concept through production. Team delivered product launch of 4.5 million K2.0 brewers generating over \$600 million in revenue.

Veryst Engineering

Engineer, 2011 - 2013
Improved consumer product and industrial component designs for consulting clients. Tested and analyzed polymers, elastomers, foams, and metals to use in industry-leading material models. Simulated drop-testing, vibration resonance, and metal forming using FEA to predict and prevent failures.

Capabilities

Qualitative and quantitative user research methods
Rapid prototyping with wood, metal, plastic, textile, composite, 3D printer
3D visualization in SolidWorks, Rhino, Grasshopper, ZBrush, 3ds Max, V-Ray, Blender
Fluent in Adobe CC, Microsoft Suite, Python