

Laura Shumaker

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EDUCATION

Massachusetts Institute of Technology // B.S. Mechanical Engineering // 2008-2012 // GPA: 4.5 / 5.0

WORK EXPERIENCE

Google (December 2016 - current) // Textile Process Engineer

- I work with Google's hardware teams to create product architectures that make the most of the textiles they use and textiles which support functional needs.
- This process ranges from guiding our partners in yarn and textile development to prototyping early-stage product concepts that require unique textile forms and manufacturing solutions.

SFT Climbing, LLC (June 2013 - December 2016) // Founder and Lead Designer

- Reduced the manufacturing cost for custom-fit shoes by 45% while improving quality of customer experience by developing a digital manufacturing process. Took this process from inception to first product shipment in <9 months. Now, new models can be designed and prototyped in 2 weeks.
- Successfully translated customer needs into the designs of our initial product line. Created these designs through sketches and Adobe Illustrator, rapid prototyping and user testing, and finally technical pattern creation that focused on comfort, durability, and shoe performance.
- Established 1 week turn-around of shoe orders by implementing production standards and managing material/component-level supply chain.

Appalatch Outdoor Apparel Co. (June - November 2016) // Technical Consultant

LIM Innovations (June - September 2015) // Consultant and Prototyping Engineer

- Provided conceptual and prototyping input on pattern design, assembly process, and measurement-to-production CAD system for LIM's Infinite Socket Liner.

Alloy Product Development (May 2012 - June 2013) // Product Design Engineer

- Directly responsible individual for the mechanical design needs of two consumer electronics projects: from gracefully resolving conflicts between functional needs with imaginative design solutions to component level design and tolerancing of high volume parts like cosmetic injection-molded housings, sheet metal grilles, and FPCB MCOs.
- Participated in the product development process from idea generation, analysis, CAD, and prototyping, to DFM and production validation builds in China. Communicated design to client, industrial design team, and overseas vendors and manufacturers.

For internships, please see my [LinkedIn profile](#).

SKILLS

3D CAD: NX Unigraphics, ProE/Creo, Solidworks, Rhino; 2D CAD: AutoCAD

Graphics: Adobe Illustrator and Photoshop; Video: Lightworks

Shop: CNC and manual mill, lathe, waterjet, laser cutter, and hand tools.

Soft goods: tooling design, pattern making, material selection, cutting & bonding, technical footwear construction/fabrication.

