

Ian Staples

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192 Jewett Road, Chester, VT

Core Skills

Mechanical Design
Product Development
3D CAD & rendering
Prototyping & production
Process implementation
Project management

Design Expertise

Sheet metal design
Millwork design for CNC routing
Design for 3D printing
Thermoforming mold design
Packaging & crate design
Jig & fixture design

Software Proficiencies

Autodesk Inventor
Solidworks
Keyshot
Alphacam
Adobe Illustrator & Photoshop
VX Model 3D scanning software
Microsoft Word & Excel

Education

Keene State College 2010-14
B.S. in Product Design

Certifications

Solidworks CSWP

Interests

3D printing & robotics
Coding & web development
Sketching & product design
Carpentry & woodworking
Mountain biking & skiing
Whitewater kayaking

Career Summary

Konrad Prefab, Springfield, VT

Lead Product Engineer

Apr 2016-present

- In charge of total product redesigns of the existing Mamava Lactation Suites, reducing complexity, assembly time, and weight. Engineered a new Suite for the Mamava product line.
- Developed and implemented processes used by multiple teams contributing to an increase in production output by over 100%.
- Managing multiple projects in a fast-paced startup environment, handling client requests, part revisions and product updates.
- Designed and built solid surface finishing jigs that reduced part finish time by over 50%. Designed solid surface thermoforming jigs and other jigs and fixtures to support manufacturing.
- Designed product packaging which reduced shipping weight by 25% and shipping damage claims by over 70%.
- Parametric 3D modeling of large, complex assemblies.
- Extensive sheet metal design and fabrication drawings.
- Tool path programming: part nesting, tool path optimization. Increased part cutting efficiency by over 20% and decreased material waste by over 25%.
- Create and maintain product documentation including CAD models, technical drawings, assembly instructions and BOMs.
- Daily use of a CNC router, thermoformer, 3D scanner, 3D printer, and basic woodworking tools.

Orion RED, Smithfield, RI

CAD Engineer

Jun 2014-Jun 2015

- Lead engineer on six currency exchange kiosks, two Adidas stores, and an interactive shoe display for New Balance.
- Designed and engineered a robust modular kiosk system.
- Project management which involved working directly with architects and designers to ensure project success.
- Translated 2D architectural construction plans to 3D models.
- Engineered millwork, wall & light fixtures, and signage.

Kiosko, North Springfield, VT

Project Engineer

Jan 2014-May 2014

- Designed, engineered, and drafted retail exhibits.
- Product development of the Original Mamava Lactation Suite.
- Engineered sheet metal fixtures for Adidas and Oakley.
- Worked as part of the R&D team to prototype new products.

Engineer Intern

May 2013-Aug 2013

- Designed and engineered a collapsable ice cream stand for Ben and Jerry's. Assisted other engineers in creating CAD models.