

**Sam Holland / Product Design Engineer**

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www.samdesignsthings.com

**Key Skills:**

Solidworks (Professional Cert.), OnShape, Consulting, CREO, Surface Modeling, Design for Manufacturing, Machine Design, Thermal Analysis, CM & JDM Partnerships, Rapid Prototyping, 3D Printer Design, Mentorship

**Consulting:** Engineering Consultant/ Brooklyn, NY / August 2016-Present

- Developed RaceYa RC car to teach STEM concepts to children. Designed 24 parts for injection molding
- Designed controllers and accessories for a Nomadic VR
- Designed frame and mounting components for a smart mirror solution for luxury apartments
- Consulting for manufacturing methods for modular lighting and power delivery project for a design firm
- Lead Product Design Engineer for rOcean One carbonated water dispenser
- Hardware design consultant for local startups

**Livestream Inc./Vimeo:** Product Design Engineer / Brooklyn, NY / June 2017 - March 2019

- Assisted with New Product Integration at Chinese JDM in Guangzhou
- Conducted thermal testing and optimization of Mevo Plus camera
- R&D for new camera products and accessories
- Created and implemented production tracking system using Google Sites, Sheets, and Forms
- Responsible for mechanical design and component layouts for next generation products
- Assisted with design and manufacturability of Livestream Studio One Computer

**MakerBot Industries:** Mechanical Engineer / Brooklyn, NY / June 2013 - June 2017

- Worked with Chinese Contract Manufacturer on New Product Integration of Replicator Z18 3D Printer
- Technical lead on four major 3D printing subsystems for MakerBot Method
- Created production ready handheld scanner from Industrial Design surface model in 8 months
- Developed Replicator Z18 3D Printer in 10 months
- Designed over 75 parts for Injection Molding, MIM, Sheet metal forming, CNC machining, and Die Casting
- Doubled printer space efficiency and halved moving mass with patent pending gantry and extruder designs
- Halved chamber heat up time using patent pending software controls and build plate design
- Mentor for three Junior Engineers and manager for one
- Worked alongside Industrial Designers to develop housing and frame for next gen 3D printer

**Henninge Inc.:** Industrial Design Intern / Burlington, VT / 2012

- Developed one handed mechanism to grab and measure various syringes for dosage pumps
- Solidworks mechanical design and photorealistic renders for various projects

**Custom Machine Inc.:** Mechanical Engineer / Woburn, MA / 2010-2011

- Designed five sizes of high performance fly fishing reels in one summer
- Created marketing renders for product launch

**Amazon Robotics / Kiva Systems:** Mechanical Engineering Intern / Woburn, MA / 2008-2011

- Used SolidWorks to design sheet metal and cardboard shelving dividers and loading ramps
- Designed automated battery discharging device

**Education:** B.S. Mechanical Engineering, Mathematics Minor at the University of Vermont, 2013