

# Benjamin Light

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## Specialties

Digital and Traditional Fabrication, CAD, CAM, CNC, Mechanical Engineering, Product Design, Rapid Prototyping, Machining, Small-scale Manufacturing, Electro-mechanical Assemblies, Robotics, Physical Computing, Material Finishes, Woodworking, Content Creation, Creative Direction, UX/UI, Teaching

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## Experience

### **Fabrication R&D Manager** at New York University

June 2019 - Present

- Design and prototype hardware for NYU faculty research
- Develop innovative applications for shop machines and software
- Create design/build strategies and troubleshoot student and faculty projects
- Planned and built-out digital and traditional fabrication facilities with architects and contractors
- Maintain and oversee shop machines and activities
- Manage shop staff
- Create and implement shop safety procedures

### **Designer** at B.Light Design

July 2007 - Present

- Plan, budget, prototype, design, and fabricate hardware and creative projects for clients
- Designed a line of ornaments for Crate & Barrel which sold out nationally
- Designed and built a product line for MoMa Design Store
- Created and installed a wide variety of work for clients such as Toni Dove, Gabe Barcia-Colombo, and Lindsey Adelman Studio
- Design consulted for variety of clients such as Bantam Tools, M Booth, Creative Technologies

### **ITP Adjunct Professor** at New York University

September 2014 - Present

- Developed and taught [Introduction to Fabrication](#); [Subtraction](#), a digital and traditional fabrication class; [Reinventing the Wheel](#), a class focused on designing and engineering kinetic objects; [XYZ](#), a gantry robotics class; [Art Toy Design](#), a character design and fabrication class

### **ITP Research Fellow** at New York University

September 2014 - May 2019

- Conducted independent research into an array of engineering topics, including custom CNC machines and finishing techniques for rapid prototyping
- Created ITP's fabrication website, including tutorials and extensive hardware documentation
- Created design/build strategies and troubleshoot student and faculty projects

### **Robotics and Engineering Mentor** at The Dalton School

February 2014 - Present

- Taught mechanical engineering and fabrication techniques to high school robotics teams

### **Release Manager/Web Developer Manager** at SelectMinds

December 2000 - July 2011

- Led web development team
- Oversaw release process of corporate social networking application
- Created and implemented multiple digital product lines

## Education

**New York University** - MPS, Interactive Telecommunications Program (ITP), 2011 - 2013

**Lehigh University** - BS, Mechanical Engineering, 1994 - 1998

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## Exhibitions and Talks

Neon - 2018

American Design Club, *Built* - 2018

Museum of Arts and Design, *In the Studios* - 2016

Dumbo Arts Festival - 2014

Museum of Arts and Design, *Open Studios* - 2013

MoMA Design Store's *Destination: NYC Collection* - 2013

Trestle Gallery - 2013

Apartment Therapy, *Design Evenings* - 2013

Sketching in Hardware, *Hardware is Hard* - 2013

Core77 Open - 2012

LES Film Festival - 2012

American Design Club, *THREAT* - 2012

American Design Club, *Use Me* - 2011

Cameron Art Museum, *Toying with Art* - 2009