

Lauren Dreier

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INTERESTS

The intersection of art and technology with a special interest in textiles.

EDUCATION

Bachelor of Arts in Architecture, magna cum laude, University of Pennsylvania, Philadelphia, PA; GPA: 3.61. 2004–2007

Selected coursework:

- Structures I & II (graduate-level)
- Environmental Systems I & II (graduate-level)
- Construction I & II (graduate-level)
- Six two-credit architecture studios
- Furniture Design (graduate-level)
- Introduction to City Planning

Mechanical Engineering, Tufts University, Medford, MA; GPA: 3.67. 2002–2003

Engineering coursework:

- 2.0 math credits awarded from highest BC Calculus exam score
 - Calculus III
 - General Physics w/ lab I & II
 - Introduction to Computers in Engineering (programming in VBA and Excel)
 - Engineering Graphics (AutoCAD, technical drawing, rendering)
 - “Gourmet Engineering”: Introduction to heat transfer with culinary application in labs. Winner of a class-wide competition to bake a cake as fast as possible.
 - “The Art of Discovery”: Introduction to regression analysis, experimental design with independent research project. Tested curing properties of latex as part of a larger project with the Tufts Robotics Club developing tube-crawler robot prototype for potential use in colonoscopies.
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HONORS AND AWARDS

Art Purchase Prize: Notre Dame of Maryland University 2012
Michael Yaron Prize in Architecture, University of Pennsylvania 2005

GROUP EXHIBITIONS

Boundless: New Works in Printmaking, Creative Arts Workshop, New Haven, CT 2012
23rd National Drawing and Print Competitive Exhibition, Gormley Gallery, Baltimore, MD 2012
Volumes: Artist Editions, Causey Contemporary, Brooklyn NY 2012
Philly(heart)Design, Philadelphia, PA 2008
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TEACHING

University of Pennsylvania, Philadelphia, PA

Lecturer, Architecture: Materials and Fabrication (undergraduate-level) 2010

- Redesigned curriculum and co-taught requisite undergraduate architecture studio.
- Led students through series of transitional exercises: from mechanical drawing to 2D fabrication via painting to 3D fabrication via the manipulation of wood to 3D installation via the construction of a free-standing folded wall panel.

Exhibition coordinator, “Bones & Water,” Charles Addams Gallery. 2010

- Designed, organized and installed exhibition of student work.

Lecturer, Integrated Product Design (graduate-level) 2008–2009

- Developed curriculum and co-taught master’s-level studio in design fundamentals.
- Utilizing freehand sketching, printmaking, mechanical drawing and parametric modeling skills, students designed and then 3D printed ‘analogs’ of human leg and arm bones.

Teaching assistant, Penn Summer Arts Studios (pre-college-level) 2005–2007

SELECTED EXPERIENCE

CODE, DATA AND GRAPHICS	<i>Freelance designer and developer.</i> See http://pandlmedia.com .	1997–current
	<i>Designer, developer, project manager,</i> Font Bureau, Webtype, Ready-Media and Type Network, a family of companies that service the type industry.	2003–2015
	<i>Art Director, developer,</i> Edible Vineyard. Martha’s Vineyard, MA	2009–2010

FABRICATION	<i>Owner, designer, fabricator,</i> L-Fab, New York, NY and Hopewell, NJ.	2015–current
	<ul style="list-style-type: none"> · Startup laser cutting business offering fabrication and design services. · Conceptualize, specify materials, fabricate and ship jobs for clients from a range of industries, including architecture, interior design, product design, fashion design, type design, large corporations and individual retail customers. · Design and build circuitry for projects with electronic components. 	
	<i>Design engineer,</i> Amuneal Manufacturing Corporation, Philadelphia, PA.	2008
	<ul style="list-style-type: none"> · Prepared shop-ready drawings, specified materials and hardware for production, generated laser code, outlined fabrication processes and estimated labor time. 	
	<i>Print shop assistant,</i> Fine Arts Printmaking Studio, U. of Penn.	2007–2008
	<i>Laser-Cutter Operator,</i> Fabrication Laboratory, U. of Penn.	2005–2007
	<i>Intern architect,</i> Maria Paz Gutierrez, Architect	2005–2007
	<ul style="list-style-type: none"> · Assisted in design for renovation of front plaza of Philadelphia public school. Project components included large-scale vinyl prints embedded in resin, aluminum benches and solar powered LEDs. · Assisted in design, fabrication and installation of a concrete- and resin-tiled play area in North Philadelphia. Worked on-site with children and members of the community. 	

TECHNICAL SKILLS	<ul style="list-style-type: none"> · Drafting and Modeling: AutoCAD, Rhino/Grasshopper, SketchUp, SolidWorks, SolidEdge. · 2D design: expert user of Adobe Creative Suite applications. · Database: Filemaker Pro, MS Excel with VBA programming. · Web: HTML, CSS/SCSS with SMACSS standards, various web-development platforms such as ExpressionEngine and Craft CMS and a range of development environment tools, GitHub collaborative workflow. · Languages: JS, Python, C. 	
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SHOP SKILLS	<ul style="list-style-type: none"> · Digital: Trotec laser, Universal Laser Systems lasers, Trumpf L3030 300-watt laser; Dimension Elite 3D printer; misc. digital imaging, large format printing and plotting on various media. · Traditional: various printmaking techniques; fine art painting; standard wood and metal shop tools; ceramics; casting in resin, rubber, concrete and vacuum-formed wood; industrial sewing and leatherworking; soldering and circuit design. 	
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SELECTED COMMUNITY SERVICE	Island Grown Initiative, Martha’s Vineyard, MA.	2004–2011
	<ul style="list-style-type: none"> · Designed and screen-printed posters for organization supporting local food in Martha’s Vineyard public schools. 	
	Larry Becker Contemporary Art, Philadelphia, PA.	2008–2009
	<ul style="list-style-type: none"> · Photographed paintings and exhibitions, assisted with studio visits and installations. 	
	People’s Emergency Center Community Development Corp., Philadelphia, PA.	2007
	<ul style="list-style-type: none"> · Designed proposal for LEED-Gold certified low-income artist housing. 	
	Instructor, Fourth Grade Theater Project, Vineyard Haven, MA.	2004
	Student Teacher, Arlington Reservoir Art Project, Arlington, MA.	2002–2003