

Benjamin J Peters

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Education

Massachusetts Institute of Technology; Media Laboratory <ul style="list-style-type: none">▪ Candidate for Master of Science in Media Arts and Science▪ Relevant Courses: Advanced Instrumentation and Measurement, Manufacturing Processes and Systems, How to Make Anything that Makes Almost Anything, Product Design, Precision Machine Design	Cambridge, MA <i>June 2013</i> <i>(expected)</i>
Massachusetts Institute of Technology <ul style="list-style-type: none">▪ Bachelor of Science in Mechanical Engineering with a Minor in Literature▪ Relevant Courses: Mechanics and Materials, Dynamics and Controls, Thermal-Fluids Engineering, Design and Manufacturing, Advanced Product Design, Elements of Mechanical Design, Robotics, and Differential Equations	Cambridge, MA <i>January 2011–</i> <i>June 2011</i>
Assumption High School <ul style="list-style-type: none">▪ Valedictorian	Wisconsin Rapids, WI <i>June 2007</i>

Experience

Parallel Actuation in Rapid Prototyping Systems, MIT Media Lab <i>Graduate Research Assistant</i> <ul style="list-style-type: none">▪ Designing and fabricating novel digital manufacturing systems in the Mediated Matter group.	Cambridge, MA <i>June 2011–</i> <i>Present</i>
Design and Fabrication of a Digitally Reconfigurable Surface, MIT <i>Undergraduate Thesis</i> <ul style="list-style-type: none">▪ Designing novel manufacturing process to quickly fabricate 3-D computer designed parts using a reconfigurable pin matrix	Cambridge, MA <i>Summer 2010–</i> <i>June 2011</i>
Laboratory for Manufacturing and Productivity, MIT <i>Undergraduate Researcher</i> <ul style="list-style-type: none">▪ Designed, fabricated, and tested several types of small scale continuous pharmaceutical filtration machines▪ Research funded by Novartis Pharmaceuticals	Cambridge, MA <i>Summer 2010–</i> <i>January 2011</i>
Discover Mechanical Engineering (DME), MIT <i>Coordinator</i> <ul style="list-style-type: none">▪ Designed and assembled custom robotics kits for incoming freshmen▪ Instructed 30+ students in basic machining and programming skills	Cambridge, MA <i>Summer 2009</i>
Hasbro <i>Engineering Intern</i> <ul style="list-style-type: none">▪ Prototyped new products in Hasbro's Engineering Model Shop▪ Involved in several collaborative design projects	Pawtucket, RI <i>Summer 2009</i>
Boy Scout Camp <i>Counselor</i> <ul style="list-style-type: none">▪ Organized curriculum and taught merit badges▪ Designed and directed camp-wide activities	Rhineland, WI <i>2003 - 2008</i>

Awards

- First place undergraduate prize in MIT Lobby 7 Design Competition (2011)
- Design award in MIT digital fabrication competition, Madfab (2010)
- Design award in Mobile Autonomous Systems Lab, Maslab (2010)
- Whitelaw Award for Excellence in Design and Manufacturing (2009)
- Eagle Scout (2006)
- National Merit Finalist (2006)

Strengths

- Combination of technical, interpersonal, and communication skills and experience in engineering, science and physics, with a special emphasis on conventional and advanced fabrication techniques
- Hardworking and articulate with a great sense of humor

Skills

Machining: Extensive design and machining experience including CNC processes, laser cutting, 3-D printing, thermoforming, abrasive waterjetting, and injection molding

Computer: SolidWorks (with simulation), COMSOL, MATLAB, MasterCAM, and MathCAD

Patents

U.S. Provisional Patent Application No.: 61/482,903

Title: Methods and Devices for Creating A Reconfigurable Surface

Filed: May 5, 2011

Inventors: Benjamin J. Peters and Eric M. Marion

U.S. Provisional Patent Application No.: 61/619,843

Title: Digitally Reconfigurable Surface

Filed: April 3, 2012

Inventors: Benjamin J. Peters

U.S. Provisional Patent Application No.: 61/619,831

Title: Feedback electromotive-discharge machining

Filed: April 3, 2012

Inventors: Benjamin J. Peters

U.S. Provisional Patent Application No.: 61/620,314

Title: Cable suspended 3D printer

Filed: April 4, 2012

Inventors: Benjamin J. Peters and Neri Oxman

U.S. Provisional Patent Application No.: 61/717,093

Title: Superconductive powder purification device

Filed: October 22, 2012

Inventors: Benjamin J. Peters

U.S. Provisional Patent Application No.: 61/717,089

Title: Macro-atom additive manufacturing

Filed: October 22, 2012

Inventors: Benjamin J. Peters

U.S. Provisional Patent Application No.: 61/717,086

Title: Nitinol plug inkjet deposition

Filed: October 22, 2012

Inventors: Benjamin J. Peters

U.S. Utility Patent Application No.: 13/465,990

Title: Methods and apparatus for a reconfigurable surface

Filed: October 22, 2012

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