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Tara Ebsworth
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17 Audubon Road
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EDUCATION

Massachusetts Institute of Technology (MIT)

Bachelor of Science in Mechanical Engineering, Concentration in Industrial Design

Minor in Art, Culture, and Technology GPA: 3.9/5.0

Relevant Coursework: Human Factors Engineering, Design & Manufacturing, Toy Product Design

Cambridge, MA

June 2014

ENGINEERING EXPERIENCE

Posimat, Manufacturing Company

Barcelona, Spain

MIT International Science and Technology Initiative Researcher

Summer 2012

- Created 2D plan diagrams of machine part prototypes in AutoCAD to be sent out for mass production.
- Modeled an entire 'Master 10' bottle-positioning machine with over 100 parts in 3D using Autodesk Inventor.

MIT Art, Culture, and Technology Program, Department of Architecture

Cambridge, MA

Undergraduate Researcher

Spring 2012

- Designed a museum installation commenting on Muslim presence in Austria.
- Modeled muqarnas in AutoCAD with my undergraduate partner.
- Made multiple installation prototypes in paper and textiles to experiment with translucence and movement.
- Ultimately constructed an installation for display in the Architecture Forum Upper Austria for Summer 2012.

MIT Museum Studio

Cambridge, MA

Undergraduate Researcher

Winter 2011/2012

- Worked on the Light Ballet, a light-based kinetic sculpture by Otto Piene.
- Improved robotic mobile base allowing the light ballet to move and interact with an audience.
- Digitally modeled entire Light Ballet cube structure and base robot in AutoCAD.
- Designed artistic acrylic outer structure for the robot.

MIT Department of Architecture, Design Computing

Cambridge, MA

Student

Fall 2011

- Designed a chair in AutoCAD.
- CNC routed chair out of plywood and waterjetted aluminum flexures in a group of 2.
- Modeled a guardhouse with a curved structure in Rhino and AutoCAD.
- Built guardhouse model at 1/8 scale out of lasercut Masonite, acrylic, and Bristol board in a group of 3.

Tec de Monterrey

Cuernavaca, Mexico

MIT International Science and Technology Initiative Researcher

Summer 2011

- Worked on sustainable development engineering projects to be implemented in impoverished communities.
- Designed and built bicycle generator.
- Devised and created a solar oven and hydraulic pump as the team engineer in a group of 6.

LEADERSHIP EXPERIENCE

MIT, **Dorm Floor Representative**, Cambridge, MA

Spring 2012

MIT Mocha Moves Dance Squad, Dancer, Treasurer and Choreographer

2011-Present

SKILLS

Software: Solidworks, AutoCAD, Autodesk Inventor, Adobe Photoshop, Microsoft Office, Apple iWork

Prototyping: CNC Router, Waterjet, Laser Cutter, 3D Printer, Machine Shop, CNC Mill and Lathe

Language: Spanish (Advanced: Speaking, Intermediate: Writing, Reading)

Other: Sewing (by hand, machine), drawing, sculpting, painting, home decor crafts