

Address:

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Katherine Paseman

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EDUCATION

Massachusetts Institute of Technology

Department of Mechanical Engineering | School of Architecture and Planning

Cambridge, MA

Class of 2018

Coursework – Engineering Mathematics: Linear Algebra & ODEs, Dynamics & Control, Mechanics & Materials, Electronics for Mechanical Systems, Numerical Computation for Mechanical Engineers, Toy Product Design, Thermo-Fluids, Designing Objects for Interactions

EXPERIENCE

MIT Media Lab

Designer & Researcher in the Object Based Media Group

Cambridge, MA

Summer 2017

- Independently redesigned Big Bar Chart, an interactive data visualization sculpture
- Redesign featured both mechanical and user experience innovations

Mattel

Product Development Intern on The Highs

El Segundo, CA

Summer 2016

- Established novel concepts for mechanisms in collaboration with design team to push the boundaries of play
- Assisted in project management across The Highs by reviewing samples and reducing costs of new SKUs
- Developed insight into brand development and segment cohesion while collaborating with other departments

International Development Hackathon (ID Hacks)

Director

Cambridge, MA

Spring 2016

- Selected as the sole MIT representative to organize ID Hacks 2016 with students from Harvard and Tufts
- Coordinated support from 50 NGOs and corporations for a hackathon hosting over 300 participants

Roominate Toy

Product Designer & Curriculum Developer

Santa Clara, CA

Summer 2015

- Sole assistant in preparation for the founders' appearance on Shark Tank
- Designed prototypes for Fall 2015 and 2016 lines of toys
- Managed interns and led weekly meetings to track progress on multiple projects

Johns Hopkins Center for Bioengineering Innovation and Design

Field researcher and Engineer

Baltimore, MD & Kolkata, India

Fall & Winter 2013

- Aided Graduate students in developing a probe to non-invasively determine hemoglobin and hematocrit levels
- Conducted field tests on 300+ patients in rural India

AWARDS

Weisner Art Gallery – Exhibitioner

Exhibited a pavilion of my own design and fabrication entitled *briar*

Cambridge, MA

Winter 2017

Intel Science Talent Search – Semifinalist

Among 300 recipients from a pool of 1,794 applicants

USA

2014

Awarded for the analytic model entitled “ $c \neq 35h$: A New Model Relating Hemoglobin, Hematocrit, and Optical Density”

Speech and Debate

First Freshman to fully qualify to the Tournament of Champions in Public Forum Debate

Various Cities, USA

SKILLS

Rapid Prototyping - Mechanical Design - CAD Modeling - Public Speaking - MATLAB - Video Editing - Adobe Suite