

# Andrew Braren



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## Education **Tufts University, Medford, MA**

2015 - 2017

M.S. in Human Factors

## **Tufts University, Medford, MA**

2011 - 2015

B.S. in Human Factors / Engineering Psychology

Minor in Entrepreneurial Leadership

## Experience **Graduate Student Researcher**

2015 - 2017

Designed and developed a new website platform to power the Maker Network and Novel Engineering websites at Tufts University's Center for Engineering Education and Outreach (CEEO). The new system enabled straightforward front-end page authoring, media uploading, student portfolios, and private project sharing. It also integrated with an RFID-based access control system to safely monitor and restrict student access to potentially dangerous shop equipment.

## **Tufts CEEO Researcher**

Summ. 2015

Designed and developed interactive, web-based handbooks intended to help high school students learn how to use the National Instruments myRIO embedded hardware device. Research was funded by National Instruments and successfully demonstrated the benefits of a multimedia-oriented alternative to the static PDFs included in their existing nPoints platform.

## **Tufts MAKE Club Founder** – [tufts.makernetwork.org](http://tufts.makernetwork.org)

2013 - 2016

Started an interdisciplinary product design club that designs, prototypes, and creates devices and software using IDEO/Google-inspired product development methods. The club encourages students to learn by making, and offers a variety of recurring hands-on workshops related to hardware and software.

## **Web and Product Consultant** – [Thinkerbit, LLC](http://Thinkerbit, LLC)

2011 - 2018

Created and currently maintain websites for clients on contract, handling eCommerce and content management for blogs and product-based sites. They've delivered 11 million pages to 6 million unique visitors to date, with over 150,000 new visitors each month. I've also created custom physical products for clients and advised their product strategy.

## **Co-Founder and Communications Manager of InvenTech Enterprises, LLC**

2009 - 2011

Led a team of nine high school students through the process of creating an assistive technology device company and filing for a provisional patent in collaboration with the University of Connecticut Intellectual Property & Law Clinic. Co-developed an assistive backpack storage device for wheelchairs.

**Activities** Led 20+ hands-on skill workshops  
Created a Tufts-themed web app  
Built a partially-functional BB-8 droid

Blogging (design, development, business)  
Web and business consulting  
Assistive technology device prototyping

**Skills** Human Factors research methods  
UI/UX design and prototyping  
Writing and communication  
Team leadership and coordination  
Public speaking / presenting

Web design (HTML, CSS, front-end JS)  
Web development (PHP, WordPress, Kirby)  
Digital prototyping (Axure, Marvel)  
Physical prototyping (3D printing, CAD)  
Graphic design (Sketch, Pixelmator)