

# Joyce Y. Chen - [chenjy@mit.edu](mailto:chenjy@mit.edu) - joyceychen.com

I am an MIT student pursuing a Bachelor of Science in Computer Science and Engineering with a concentration in Comparative Media Studies. I'm interested in UI/UX because it combines programming, graphical design, and hands-on testing, which is what I'm currently working on at my UROP.

## EDUCATION

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**Massachusetts Institute of Technology (2014-Present)** Cambridge, MA  
Intro to Design (2.00), Intro to EECS (6.01), Mathematics for CS (6.042), Computation Structures (6.004), Intro to Machine Learning (6.036), Software Construction (6.005), Artificial Intelligence (6.034), Strobe Project Lab (6.163), Introduction to Media Studies (CMS.100), Intro to Video game Theory (CMS.300)

## SKILLS

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<b>Programming</b>	Experience with Python, C++, Java, Git, LaTeX, and some HTML/CSS
<b>Engineering</b>	5 years of hands-on experience design and building projects, and mentoring
<b>Leadership</b>	Significant experience managing teams to achieve good project outcomes. Managed 11 engineering projects in senior year of high school.
<b>Design</b>	5 years of experience with CAD (AutoDesk, Sketchup), 8+ years with drawing, Significant experience with Adobe Photoshop, Illustrator, and Indesign
<b>UI and UX</b>	Experience with UI and UX from playing-testing and designing games from TSL UROP

## WORK EXPERIENCE

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**MIT Teaching Systems Lab UROP (June 2016-Present)** Cambridge, MA  
Designing and play-testing the UI/UX of various learning experiences, challenges, and games

**Syntheon (Summer 2012)** Miami, FL  
As a research intern, lead the Detectors team through the development of compact radiation and cosmic ray detectors for use in a global network

## PATENTS

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**Compact Water Filtration System [Inventor] US Patent: 61/974,863**  
Water filtration device deployed in developing countries (currently Kasai, Haiti, Nigeria, Argentina, and the Philippines) to provide clean water and prevent illness from contamination

**MedEasy Pill Minder [Inventor] US Patent: 61/810,681**  
Automated storage unit designed to remind and dispense correct dosages of medication

## CONFERENCES

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**Conrad Awards: Spirit of Innovation 2013 - 2014**  
Keynote speaker to discuss the water filtration project and its legacy

**USA Science & Engineering Festival 2013**  
Represented the ASPE at the festival in Washington DC

**American Society of Plumbing Engineers Technical Symposium 2013**  
Attended and accepted an award for the water filtration project

## AWARDS

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<b>Top Ten Finalist</b>	<b>MakeMIT (2015)</b> Designed and built a tensegrity robot controlled by a Myo Armband
<b>National Finalist</b>	<b>Conrad Awards: Spirit of Innovation (2012 - 2013): Health and Nutrition</b> Delivered a proposal for the MedEasy Pill Minder
<b>Silver Key</b>	<b>Scholastic Art and Writing Awards (2013): Visual Arts</b>
<b>First Place</b>	<b>Florida State and Miami-Dade Fair (2011, 2012, 2013): Architecture</b>