

**University Address**  
305 Memorial Drive  
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## CHLOE NELSON-ARZUAGA

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**Home Address**  
295 Barrington Lane  
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### EDUCATION

#### Massachusetts Institute of Technology

**Class of 2021**

Cambridge, MA

- Candidate for B.S. in Mechanical Engineering with a concentration in Autonomous Machines
- Candidate for B.S. in Art and Design
- Candidate for Teacher Certification for the state of Massachusetts
- GPA: 4.7/5.0
- Relevant Coursework: Toy Product Design, Design Computation, Python, How to Make (almost) Anything

#### The Athenian School

**Class of 2017**

Danville, CA

- GPA: 4.5/4.0
- Relevant Coursework: AP Computer Science, Applied Science and Engineering, CAD and Fabrication

### ACADEMIC EXPERIENCE

#### Tangible Media: Media Lab, MIT

**August 2017- January 2019**

##### Undergraduate Researcher

Cambridge, MA

- Worked full-time over the summer (and part time during school year) on an interface for an interactive shape display
- Designed and fabricated a large scale prototype of a variable magnetic particle
- Tested different materials for strength and weight as well as different motors for power output
- Wrote a paper for publication that is currently seeking conference acceptance

#### FIRST Robotics

**January 2016 – April 2017**

##### Co-leader for CAD

Danville, CA

- Worked more than 200 hours each season on SolidWorks design and machine tools
- Mentored and delegated CAD work to a group of 10 underclassmen

### EDUCATION/ OUTREACH

#### Women's Technology Program (WTP)

**May 2019- August 2019**

##### Mechanical Engineering Tutor

Cambridge, MA

- Worked full time as part of the residential staff in mentoring 20 rising high school seniors
- Taught a class on motors and gears and created fun and engaging demos to inspire the girls

#### Edgerton Center

**March 2018 – May 2019**

##### Makerlodge Mentor

Cambridge, MA

- Maintained a hobby shop for three hours a week to teach people how to use the fabrication machines
- Created curriculum and taught teachers how to implement maker shops in the Boston area school districts

#### DynaMIT

**August 2018-August 2019**

##### Student Mentor

Cambridge, MA

- Created and presented lectures and led 7<sup>th</sup> graders through Mechanical Engineering activities

### LEADERSHIP EXPERIENCE/ VOLUNTEER WORK

#### Sigma Kappa Sorority

**December 2018 – Present**

##### Baking Chair

Boston, MA

- Lead team of 4 to bake 200+ cookies every week for weekly community building
- Plan the food served to 200+ people during recruitment

#### Maseeh Hall

**September 2018-May 2019**

##### Floor 2 Representative

Cambridge, MA

- Managed 90 people and a \$1,600 budget for floor activities to cultivate a closer community
- Created a Big/Little mentor system to make freshmen feel more comfortable reaching out to upperclassmen

#### First Robotics Mentor

**December 2017-February 2018**

##### CAD Mentor

Danville, CA

- Oversaw high school students on the design/CAD team and kept an overall eye on the machine shop
- Aided in decision making and led the students to choose a design that was possible within their skill set

#### Imagieering (SRVUSD)

**March 2016 – August 2016**

##### Student Mentor/Teacher's Assistant

San Ramon, CA

- Taught elementary and middle school students in an afterschool program for robotics and 3D printing
- Reinforced the lessons that the teacher taught and helped students through in-class projects

### SKILLS/INTERESTS

**Technical Skills:** Computer Programing (Java, Python), SolidWorks, Shopbot CNC router, Laser Cutter, 3D printer, Excel

**Languages:** Fluent in Spanish, learning Japanese

**Interests:** SWE, SHPE, Volleyball, Choir, Yoga, Reading, Scuba Diving, Speech and Debate