**University Address CHLOE NELSON-ARZUAGA Home Address**

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Cambridge, MA 02139 Alamo, CA 94507

**EDUCATION**

**Massachusetts Institute of Technology Class of 2021**

- Candidate for B.S. in Art and Design Cambridge, MA

- Candidate for B.S. Mechanical Engineering with a concentration in Autonomous Machines (MIT NEET)

- Candidate for Spanish Concentration

- GPA: 4.6/5.0

- Relevant Coursework: Toy Product Design, Design Computation, Python, How to Make (Almost) Anything

**The Athenian School Class of 2017**

- GPA: 4.5/4.0 Danville, CA

- Relevant Coursework: AP Computer Science, Applied Science and Engineering, CAD and Fabrication

**ACADEMIC EXPERIENCE**

**City Science:** Media Lab, MIT **June 2020- August 2020**

*Undergraduate Researcher* Cambridge, MA

- Created designs for an automatically collapsing table and micro-kitchen counter extender

- Generated full room animations that showed how the furniture interacted in a space

**MIT Forge and Foundry:** Material Science, MIT **August 2019- January 2020**

*Undergraduate Researcher* Cambridge, MA

- Fashioned different mixtures of steel in the hope of recreating lost Damascus steel

- Studied the material properties of these steels to understand what made Damascus steel superior

**Tangible Media:** Media Lab, MIT **August 2017- January 2019**

*Undergraduate Researcher* Cambridge, MA

- Developed an interface for an interactive shape display and wrote a [paper](https://dl.acm.org/doi/10.1145/3374920.3374933) published in February 2020

- Designed and fabricated a large-scale prototype of a variable magnetic particle

**TEACHING/OUTREACH**

**City of Miami Beach June 2020 – Present**

*Intern* Miami Beach, FL

- Worked full-time to create lesson plans for 14-hour after school programs in Scratch, Math and Logic, and 3D printing

- Currently teaching courses remotely to students, consistent with COVID-19 restrictions

**Edgerton Center March 2018 – January 2020**

*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 to implement maker shops in Boston area school districts

**Women’s Technology Program May 2019- August 2019**

*Mechanical Engineering Tutor* Cambridge, MA

- Worked full time during the summer as part of the residential staff in mentoring rising high school seniors

- Taught a class on motors and gears and created fun and engaging demos to inspire the girls

**DynaMIT August 2018-August 2019**

*Camp counselor* Cambridge, MA

- Created and presented lectures and led 7th graders through Mechanical Engineering activities

**LEADERSHIP EXPERIENCE/ VOLUNTEER WORK**

**Sigma Kappa Sorority September 2017 – Present**

*Baking Chair (2019)/ Panhellenic Recruitment Counselor (2020)* Boston, MA

- Led team to bake 200+ cookies every week and planned the food served during recruitment

- Counseled potential new members through recruitment in an unbiased manner

**Maseeh Hall September 2018-May 2019**

*Floor 2 representative* Cambridge, MA

- Managed 90 people and $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 during Intraterm break* 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

**SKILLS/INTERESTS**

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

**Language:** Conversational in Spanish (intermediate in writing), Learning Japanese

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