

# Leslie Jaramillo Martinez

Medford, MA | [Portfolio](#) | [leslie.jaramillo\\_martinez@tufts.edu](mailto:leslie.jaramillo_martinez@tufts.edu)

## EDUCATION

### Tufts University

BS in Mechanical Engineering (GPA: 3.8)

Medford, MA

Graduation Date: May 2023

- Organizations/Awards: Dean's Honors List, Mechanical Engineering Diversity Award, President of DEIJ Student Board, Engineering Education Research
- Relevant Courses: Engineering Design; Electromech Systems & Robotics; Materials & Manufacturing; Mechanics

## WORK EXPERIENCE

### Tufts University Mechanical Engineering Department

Medford, MA

Learning Assistant

August 2021- Present

- Advised Electronics & Controls students during weekly office hours on Raspberry Pi and Arduino Feather projects, and circuits problem sets
- Managed weekly labs for the Materials and Manufacturing course in the machine shop; mentored students in using SolidWorks design models
- Conducted the product disassembly and re-design of an electric hand mixer for the Engineering Design lab

### Formlabs

Somerville, MA

Build Team Intern

June 2022- August 2022

- Machined, assembled, and validated jigs for the manufacturing site in Hungary; documented and executed the assembly process for the x-stage parallelism jig used in Form 3+
- Ran over 20 hours of lifetime testing for heaters using a pneumatic system; used metrology tools for IQC

### Cree | Wolfspeed

Durham, NC

Process Engineering Intern

June 2021- August 2021

- Improved sheet resistance variation of SiC wafers by 90% per trial
- Identified key issues and implemented operational improvements that increased the quantity of SiC wafers tested by 20%

### Abbott Neuromodulation

Plano, TX

Operations Engineering Intern

June 2020- August 2020

- Developed a full redesign of polymer tubing with a 51% decrease in stress concentration
- Executed a total of 210 virtual tests using SolidWorks FEA for electric leads in the millimeter diameter range

## ORGANIZATIONS & LEADERSHIP

### Tufts Mechanical Engineering DEIJ Student Board

Medford, MA

President

May 2022 – Present

- Partnered with the Mechanical Engineering Department at Tufts to address issues with diversity and equity during weekly Town Halls
- Coordinated with Tufts Faculty and the Center for STEM Diversity to implement changes discussed in Town Halls
- Spearheaded events for underrepresented students, ranging from bonding Boba events to open discussions about microaggression; hosted allyship events in partnership with Professors and faculty focusing on anti-racism work
- Received and managed over \$5,500 of yearly grants for the DEIJ Student Board events

### Tufts Engineering Department

Medford, MA

Engineering Ambassador

May 2022 – Present

- Advised incoming Mechanical Engineering students during panels and workshops for course registration and available resources on campus

### Tufts Mechanical Engineering Department

Medford, MA

Researcher

October 2021 – Present

- Co-researched the factors influencing project selection for engineering portfolios, specifically the role underrepresented backgrounds play in what a student considers an engineering project
- Presented a poster to the Mechanical Engineering department and co-wrote a journal that will be sent to the American Society of Engineering Education for review

## SKILLS & INTERESTS

**Skills:** Machine Shop Equipment | CAD Modeling | Robotics & microcontrollers | MatLAB | Arduino IDE | Soldering | Rapid Prototyping

**Interests:** Product Design & Manufacturing, Electromechanical Systems & Integration, DEIJ initiatives