

Elliot Pavlovich

(Legal Name: Lucinda Pavlovich)

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EXPERIENCE

Dwight School, Manhattan, NY — *Engineer in Residence*

January 2022 - Present

Run the high school makerspace, teaching students how to use the tools, and assist design/tech teachers grades 1-12. Starting a FIRST robotics team and an aerospace program connecting the school's five campuses across the globe. Designing 11th grade curriculum to steer the design class in a slightly more engineering direction.

Center for Engineering Education Outreach, Medford, MA — *Consultant*

November 2020 - March 2021

Explored cloud possibilities with Wolfram Mathematica, designing dynamic weather websites.

Nolop Makerspace, Medford, MA - *Machine Shop Supervisor*

September 2019 - March 2020

Designed and fabricated projects. Supported everyone, from first-time fabricators to experienced engineers in their prototyping endeavors.

Tufts University Mechanical Engineering Department, Medford, MA - *Teaching Assistant*

January 2019 - May 2020

Undergraduate Robotics - Supported students working with pyboards

Mechanical Engineering Senior Capstone - Worked with groups to brainstorm and prototype projects for their semester-long senior capstone project

Undergraduate Controls - Supported professor with curriculum design and led office hours for making a self-balancing motorcycle

Aurora Flight Sciences, Cambridge, MA - *Robotics Engineer*

May 2019 - August 2019

Designed and prototyped a drone with a team. Manufactured original designs in the machine shop.

Center for Engineering Education Outreach, Medford, MA — *Research Assistant, CEEO Innovation Fund*

January 2017 - May 2018

Developed an Internet of Things platform (ThingWorx) LabVIEW package, and designed and built robots to collaborate with the Thingworx platform.

SKILLS

Python, C++, LABView, Processing, MATLAB, r Robot C, ROS

Microsoft Office Suite

CAD (Solidworks, Fusion 360, onshape), Machine tools, laser cutter, 3D printer, vinyl cutter, CNC Machine

AWARDS

Presidential Award- for 300+ hours of community service in one year

Dean's List- excellent grades all through undergrad and grad degrees

FIRST Scholar- received scholarship money from NSF to continue education

LANGUAGES

English, French, German

REFERENCES

Chris Rogers -
chris.rogers@tufts.edu

Brandon Stafford -
brandon.stafford@tufts.edu

PERSONAL SITE

<https://www.elliotpavlovich.com/>

VOLUNTEER EXPERIENCE

SBPLI FIRST Robotics, Long Island, NY — Referee and Judge

January 2015, January 2019, February-March 2022

Homeless Coalition, Somerville, MA — Cook/Organizer

April 2018- March 2020

Long Island Science Museum, Manhasset, NY — Volunteer

July 2014 - August 2014

EDUCATION

Tufts University: School of Engineering, Medford, MA — M.S. in Mechanical Engineering

September 2019 - May 2020

Relevant Classes: Advanced Controls, Aerodynamics, Collaborative Robotics, Industrial Design, Inventive Design

Tufts University: School of Engineering, Medford, MA — B.S. in Mechanical Engineering and Mathematics

September 2016 - May 2019

Relevant Classes: Robotics, Engineering Education, Material Engineering, Instruments and Experimentation, Mechanical Design and Fabrication, Applied Mechanics, Autonomous Intelligent Robots, Animation, Machine Design, Senior Design, Musical Instrument Design, Advanced Robotics

PROJECTS

Falkour (name of my van) — Personal Project

Built out the cargo area of a Ford Econoline to make it habitable. Installed my own plumbing, electric and carpentry as well as doing minor repairs to the van itself.

Low Cost Reconfigurable Educational Drone — Master's Project

Designed a laser cut plywood kit for making a drone. Students could configure the drone how they would like and test its different properties.

Agricultural Trimming Machine — Senior Capstone

Worked with client to design and produce an easily cleanable and product preserving industrial trimming machine

More — Check out the projects tab on my website for more