

Yufeng (Eric) Wu

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Education

Tufts University –Medford, MA

Bachelor of Science in Mechanical Engineering with a minor in Studio Art

May 2021

Relevant Courses: Intro to Computer Science, Intro to Robotics & Mechatronics, Machine Design, Machine Design & Fabrication

GPA: 3.83, Fall 2018 Dean's List

Skills

Fabrication: Laser-cutting, 3D printing, CNC milling, machine shop tools, soldering.

Programming: Arduino, Python, LabVIEW, C++, HTML, CSS, JavaScript.

CAD Software: Solidworks, KiCad, Rhino.

Other Software: Microsoft Azure, Slack, Adobe Illustrator, Adobe Photoshop.

Language: Mandarin (Native).

Experience

Tufts University Center for Engineering Education and Outreach, LEGO Developer, Summer Intern

Nov. 2017 - Present

- Designed LEGO SPIKE Prime “backpacks” that host 3rd-party sensors and micro-controllers. Designed a universal hardware plug-in system for communication between LEGO and other devices. The system was then used by 10 other LEGO developers for software testing, learning experience design, and more backpacks design.
- Design and prototype adapters and printed circuit boards that combine LEGO and 3rd-party devices.
- Develop projects and teaching experiences that combine LEGO with other materials. Designed an educational pulley system with 3D-printed, LEGO-compatible parts using the Form 2 3D printer.

Tufts University Nolop FAST Facility, Fabrication Specialist

Jan. 2019 - Present

- Guide incoming students and faculty through their brainstorm, design, and fabrication process.
- Maintain makerspace machines and tools.

Tufts University Soft Robotics Exosuit Research Project, Hardware Team Lead, Member

Jan. 2019 - Present

- Manage hardware team project development through Microsoft Azure Platform. Coordinates with Faculty Advisors regarding project status and future directions.
- Train new members on silicone casting, mold designs, and other skills related to the project.
- Built a silicone 3D printer for prototyping soft actuators. Adapted and improved an existing design from Soft Robotics Toolkit.
- Built a fluidic control board to control air flow from an air compressor to soft actuators.

Tufts University Robotics Club, Treasurer, Project Leader

Sept. 2017 - Present

- Performed rapid prototyping and fabricated the main structure of a robot for the 2018 Trinity College International Robot Contest using Onshape and Adobe Illustrator.
- Lead the chassis design team for the 2019 Trinity Robot Competition by managing project development process and guiding team members brainstorm and rapid prototype.

Tufts University Autonomous Intelligent Robotics (AIR) lab, Undergraduate Researcher

Oct. 2018 – June 2019

- Designed and fabricated a robot head for a UR5 arm system using 3d-printed parts.
- Designed the system in Solidworks and export to urdf files to aid simulations in Robot Operating System (ROS).

Ideas Camp at Changshu, China, Counselor

July 2018 - Aug. 2018

- Lead a group of 20 campers (age 12-14) all day for two weeks.
- Facilitated camp activities including social emotional learning (SEL), physical challenges, and project-based learning; lead daily group reflections.

Awards

- Silver Award, 2015 Asian-Pacific Robotics Competition (VEX).