

Mindy Tieu

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mintyish.github.io

EDUCATION

Olin College of Engineering, Needham MA

Bachelor's in Mechanical Engineering Candidate, May 2017. GPA 3.5

- Previous courses: Dynamics, Mechanics of Solids and Structures, Thermodynamics, User Oriented Collaborative Design.
- Current courses: Systems, Mechanical Design, Transport, Senior Capstone Project with Amazon Robotics.
- Course Assistant for Quantitative Engineering Analysis.

Sophia University, Tokyo, Japan

Study Abroad Semester, September 2015- January 2016.

- American Association of Teachers of Japanese Bridging Scholarship Recipient 2015.

EXPERIENCE

Superpedestrian, Cambridge MA

May 2016 – Aug 2016

- Structured, executed, and documented mechanical design validation plan for entire product assembly before ship.
- Investigated new grease application method and did system level analysis of sound pressure and drag forces in final product.
- Designed and fabricated structures for mechanical tests in extreme environmental conditions and representative dynamic forces.

MA Space Grant Research Engineer, Needham MA

June 2015 – Aug 2015

- Managed and lead team of six student researchers working on four different projects over eleven weeks.
- Conducted Finite Element Analysis of a new orthodontic pacifier design by Dr. Tesini.
- Designed, fabricated, and tested perching landing gear for implementation on unmanned aerial vehicles.

Olin Intelligent Vehicles Research Assistant, Needham MA

Sept 2014 - Dec 2014

- Implemented autonomous quad-copter drones in whale research project "Snot Bot" with Ocean Alliance.
- Field tested and acquired data from drone and whale simulated interactions.

Design Nature Course Assistant, Needham MA

Sept 2014 - Dec 2014

- Assisted professors in the modification and execution of a design course for first years at Olin.
- Provided assistance to students via office hours, team dynamic advising, and tutorials on SolidWorks and mechanical design.

Robot X Research Engineer, Needham MA

Jan 2014 - May 2014

- Designed and fabricated sensor mounts on Robot X, an intelligent maritime vehicle shared by Olin and MIT.
- Developed advanced composite fabrication skills for marine applications through CAD modeling and machine shop use.

PRESENTATIONS AND PUBLICATIONS

Autonomous Aerial Vehicles for Remote Sample Collection in Difficult Conditions

- Paper published to IEEE International Conference on Technologies for Practical Robot Applications, 11-12 May 2015, Woburn, MA.
- Poster Presented at Northeast Robotics Colloquium, 11 Sept 2014, Brown University, RI.

Demonstrations of Bio-Inspired Perching Landing Gear for UAVs

- Paper published to SPIE Smart Materials Conference on Bioinspiration, Biomimetics, and Bioreplication VI in Nevada March 2016.

SKILLS

Experienced in: SolidWorks, SolidCAM, FEA, MATLAB, LabVIEW, HTML, CSS, LaTeX, Photoshop, InDesign

Trained on: Manual/CNC Mill, Lathe, Laser Cutter, Composites, MakerBot Replicator 2x, Stratasys, Environmental Chambers

Interests: Videogames, running, fencing, costume design and fabrication, foreign language (Japanese and Russian)