Mindy Tieu

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EDUCATION

Olin College of Engineering, Needham MA

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

- Previous courses: Principles of Modern Biology, Mechanics of Solids and Structures, Thermodynamics, User Oriented Collaborative Design, Dynamics, Modeling and Control.

Sophia University, Tokyo, Japan

Study Abroad Semester, September 2015- January 2016.

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

EXPERIENCE

MA Space Grant Research Engineer, Needham MA — June 2015 - Aug 2015

- Managed and lead team of six student researchers working on four different projects.
- Conducted Finite Element Analysis of an orthodontic pacifier designed by Dr. Tesini.
- Designed, fabricated, and tested perching landing gear for implementation on drones.

Snot Bot Research Engineer, Needham MA — Sept 2014 - Dec 2014

- Implemented autonomous quad-copter drones in whale research 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 in class assistance to students, held office hours and tutorials on SolidWorks and mechanical design, and managed class materials and design stockroom.

Santos Family Foundation Researcher, Needham MA — June 2014 - Aug 2014

- Devised a Senior Capstone Program in Engineering (SCOPE) project that bridged the Santos mission for automotive safety with the needs and values of a team of Olin seniors.
- Implemented design frameworks and handled co-designs and expert interviews.

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 though 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 9797 on Bioinspiration, Biomemetics, and Bioreplication VI in Nevada March 2016.

SKILLS

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

Trained on: Mill, Lathe, Laser Cutter, Composites, Horizontal and Vertical Band Saws, Drill Press, MakerBot Replicator 2x, Stratasys

Interests: Videogames, running, fencing, paper crafts, foreign language (Japanese and Russian)