Emily P Yang

320 Memorial Drive, Cambridge, MA 02139 • Phone: (302) 893-3091 • Email: epyang@mit.edu

Education

Massachusetts Institute of Technology — **Cambridge, MA**
Candidate for Bachelor of Science in Mechanical Engineering — Jun ‘14
Relevant Coursework: Design and Manufacturing, Measurement and Instrumentation, Numerical Computation, Dynamics and Controls, Engineering Innovation and Design
GPA: 4.9/5.0

Experience

Mechatronics Research Laboratory, MIT — **Cambridge, MA**
Undergraduate Researcher — June ‘12-Sept ‘12

- Assessed and re-designed components of an in-pipe leak detection robot with a novel sensing mechanism using SolidWorks and 3D printing
- Conducted experiments to test sensing mechanism and overall system performance
- Performed product research for different electronic and mechanical components compliant with robot specifications, compiled reports, interfaced with manufacturers and vendors

Fluidnet Corporation — **Amesbury, MA**
Mechanical Engineering Intern — Jan ‘12-Feb ‘12

- Assisted the Mechanical Engineering team in building and testing prototypes of Fluidnet’s original pneumatic-based infusion pumping platform by conducting performance tests and part inspections, analyzing test results, and constructing device subcomponents
- Designed a hand tool to facilitate installation and removal of pumping chamber port using SolidWorks

Mechanical Systems Laboratory, University of Delaware — **Newark, DE**
Summer Undergraduate Researcher — May ‘11-Aug ‘11

- Assisted in the development of a novel, flapping-wing micro air vehicle (MAV) capable of achieving controlled symmetric and asymmetric in-phase flapping motions
- Optimized the proposed two-layered MAV mechanism using MATLAB, results incorporated into a successfully operational scaled prototype of the mechanism
- Second author for paper presented at the 2012 IEEE International Conference on Robotics and Automation (ICRA) in St. Paul, MN

Leadership

Gordon-MIT Engineering Leadership (GEL) Program — Sept ’12-Present

- Participating in an interactive and experience-based program that aims to hone leadership skills in an engineering context

MIT Association of Taiwanese Students (ATS) — Dec ‘11-Present
Co-President

- Oversee 11 executive board members to coordinate 10-12 campus-wide events per semester that promote appreciation and knowledge of Taiwanese culture, maintain constructive relations with other MIT organizations

MIT Undergraduate Practice Opportunities Program (UPOP) — Oct ’11-Present

- Participating in a professional development and engineering practice program preparing students for success in the workplace

MIT American Society of Mechanical Engineers (ASME) — Feb ‘12-Present
Activities Manager

- Schedule and organize all department-wide events to foster a sense of community within the Mechanical Engineering Department and to provide social, educational, and career-related opportunities for students

Skills

Technical: Basic machine shop experience, 3D printing
Computer: SolidWorks, MATLAB, Microsoft Office
Language: Conversational Mandarin

Awards

United States Presidential Scholar (2010); National Merit Scholarship Recipient (2010)