Shuai Yue

Address: 70 Pacific St 495B, Cambridge, MA 02139 | Cell: 518-618-6219 | Email: [shuaiy@mit.edu](mailto:shuaiy@mit.edu)

**EDUCATION**

**Massachusetts Institute of Technology (MIT), Cambridge, MA** Dec 2013

Master of Science in Mechanical Engineering | Focus: Design & Product Development

**Rensselaer Polytechnic Institute (RPI), Troy, NY** May 2012

Bachelor of Science in Mechanical Engineering GPA: 3.8/4.0

**RELEVANT EXPERIENCE**

**Research Assistant**, MIT CAD lab, Advisor: David Wallace Present

* Researched the impact of Distributed Object-based Modeling Environment (DOME) on the co-design process of researchers and users. DOME enables users to participate in product development process online.
* Researches the application of rapid prototyping in DOME to facilitate early physical testing of products

**Design and Quality Co-op Engineer**, Schick Wilkinson-Sword (Energizer Holdings, Inc.) Jan 2011- Aug 2011

* Defined, analyzed, modeled, detail designed, fabricated a testing machine named “The Shuai Machine”
* Developed a method with new fixture designs to improve the accuracy of a standard blade test
* Modeled and refined the design of a blade heat treatment machine with 50% more efficiency
* Wired the control of a test machine, replaced out-dated hardware with a new cabinet/ enclosure design
* Conducted various quality tests and launched numerous gauge studies for the inspection on razor’s quality

**Undergraduate Research Program**, MANE Department, RPI Spring 2012

* Designed working prototypes of soils and biofouling research equipments by Solidworks & 3-D printer
* Taught multidisciplinary engineers SolidWorks

**Undergraduate Research Program**,MANE Department, RPI Fall 2010

* Developed a motion and process control system by using LabView and Matlab

**RELEVANT COURSEWORK**

**Introduction to Manufacturing Systems,** MIT Fall 2012

* Analyzes manufacturing systems including material flow and storage, information flow, capacities, durations
* Studies probability, inventory and queuing models, forecasting, optimization, factory planning and scheduling

**Analysis of Manufacturing Processes**, RPI Spring 2012

* Analyzed bulk-forming, sheet forming processes, metal cutting and related quality attributes and tolerances

**Design of Mechanical System,** RPI Spring 2012

* Designed a solar powered system to convert dry biowaste into valuable fuel for farmers in Ghana

**Introduction to Engineering Design**, RPI Fall 2011

* Managed a team of three and designed, built, tested and presented a mousetrap car
* Designed in SolidWorks and fabricated a portable solar & wind powered lighting system

**Finite Element Analysis,** Fairfield University Spring 2011

* Used both the Finite Element method manually and the software ANSYS to solve problems in design and manufacturing, mechanics and materials, fluid mechanics, and heat transfer.

**LEADERSHIP EXPERIENCE**

**Vice President,** Hong Kong Student Association, RPIFall 2011- Spring 2012

* Planned, organized, directed and executed several cultural events
* Collaborated with the president on the management of the club and the executive board

**Teaching Assistant**, Chinese Mandarin class, Kimball Union Academy Fall 2008- Spring 2009

* Taught students and assisted teacher to engage students’ interest and motivation through teaching activities

**Tour Guide (Volunteer)**, 2008 Beijing Olympics August 2008

**SKILLS**

SolidWorks(Proficient), Pro E, AutoCAD, ANSYS, Minitab, C/C++, JAVA, Matlab, Microsoft, Chinese(Fluent)

**HONORS**

Rensselaer Medal, RPI Dean’s List, Tau Beta Pi (National Engineering Honor Society)

**ACTIVITIES**

Engineers for a Sustainable World, American Society of Mechanical Engineers

Swim Club, Intramural Basketball