# Luqi Yan

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# **SKILLS**

**Programming:** C++, Python, JavaScript, HTML5, CSS3, Sass, Bootstrap, SQL, jQuery, AngularJS, Node.js, Express.js, Assembly Language

Software: AutoCAD, SolidWorks, CATIA, ProE, ANSYS, COMSOL, Abaqus, Arduino, MATLAB,

Photoshop, Illustrator, iMovie, Final Cut Pro, Premiere

Language: Native in Chinese, Fluent in English

#### **PORTFOLIO**

#### **Personal Website**

http://luqiyan.x10host.com/Luqi\_Yan\_Website/

# **Company Website Demo**

http://luqiyan.x10host.com/Company Website Demo/

#### **Employee Management System Demo**

http://lugiyan.x10host.com/Employee System/#/

## Flower Gallery jQuery Mobile Demo

http://luqiyan.x10host.com/Flower Gallery/

#### **EDUCATION**

Tufts University, Medford, MA, USA

September 2013 – May 2015

Master of Science in Mechanical Engineering

**GPA:** 3.9/4.0

East China University of Science and Technology, Shanghai, China

*September 2009 – June 2013* 

Bachelor of Science in Machine Design, Manufacture and Automation

**GPA**: 3.3/4.0

- University Scholarship for Superior Academic Performance (recipient, 4 years)
- Social Work Prize for Outstanding School and Social Work Performance (recipient, 3 years)

University of Science and Technology Beijing, Beijing, China

September 2011 – February 2012

One-semester selective merit-based exchange study program

# **WORK EXPERIENCE**

Software Engineer, San Jose, CA, US

June 2015 – Present

Valiantica, Inc.

- Extensive experience in UI/UX Development, such as analysis, design, coding, testing, debugging, implementation and support working with various projects
- Designed and implemented a client's company website from the ground up
- Designed and implemented a cloud-based business process management system, including job application and recruiting management, HR management, and accounting management
- Maintained the existing web application such as testing, fixing bugs, adding new features, created appealing visual web interfaces and improving performance
- Environment: HTML5, CSS3, Sass, Bootstrap, AngularJS, JavaScript, JSON, MySQL, Node.js, Express.js and Photoshop

Teaching Assistant, Medford, MA, USA

*May 2014 – May 2015* 

Tufts University, Mechanical Engineering, Civil and Environmental Engineering Department

- Graded homework and class projects for graduate level Finite Element Analysis I & II courses
- Wrote 20+ ANSYS tutorials for classes and homework
- Provided individual assistance with ANSYS and homework during open office hours twice a week

# Engineer Intern, Shanghai, China

*May 2013 – August 2013* 

Leiyue Heavy Machinery Industry Co., Ltd, Engineering Department

- Implemented and developed company website using HTML, CSS, JavaScript, and JSON
- Created appealing visual web interfaces by Photoshop
- Redesigned 2D CAD drawings to fix issues caused by multiple national standards
- Tested and evaluated theoretical designs to improve quality, and analyzed the failure modes
- Generated engineering and manufacturing specifications, participated in equipment and tooling installation and validation
- Provided technical supports to international clients in Europe and Africa

# Quality Engineer Intern, Shanghai, China

September 2012 – February 2013

Philips (China) Investment Co., Ltd, Quality Department

- Conducted performance tests and analyzed data to find new solutions to make products more suitable for customers
- Managed and analyzed yearly performance data for domestic appliance products, wrote technical reports on the cost, quality, reliability, and repair rate for the leader of the quality department

#### RESEARCH EXPERIENCE

# Culture Medium Exchange System, Medford, MA, USA

January 2014 – May 2015

Tufts University

- Originated a liquid handling system that can automatically exchange the culture medium in a petri dish
- Designed and verified 3D drawings and generated 2D CAD drawings using SolidWorks
- Fabricated, assembled and tested the prototype of exchange system
- Designed and optimized the circuit board and control system based on Arduino
- Simulated the fluid flow in the petri dish of various models using COMSOL Multiphysics
- Analyzed simulation results and physical experiments data, manipulated data using STATA and EXCEL
- Publication: Yan L. Design and Optimization of a System for Automated Culture Medium Exchange in a Petri Dish [D]. TUFTS UNIVERSITY, 2015.

## GE Aviation Turbine Disk, Medford, MA, USA

March 2014 - May 2014

Tufts University

- Designed the fabrication process and inspection method of GE Aviation Turbine Disk
- Created 2D CAD drawings by AutoCAD for every machining steps
- Generated machining and tooling requirements for every detailed steps
- Estimated the manufacturing costs and provided technical supports for complete manufacturing process

### Engineering Practical Training, Shanghai, China

Apr 2012 – June 2012

East China University of Science and Technology

- Developed optimum cutting parameters for various alloy material
- Designed CNC and PLC machining program and provided technical reports
- Performed the startup and debugged the control system of laser welding and cutting

# Freescale Smart Car, Beijing, China

September 2011 – January 2012

University of Science and Technology Beijing

- Designed a car with autonomous path identification using photoelectric sensor
- Implemented the embedded control system based on Freescale single-chip microcomputer
- Designed and optimized photoelectric-based mapping algorithm using C
- Designed and optimized the mechanical structure of the car