

Luqi Yan

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SKILLS

Programming: C++, Python, JavaScript, HTML, CSS, 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://luqiyang.x10host.com/Luqi_Yan_Website/

Company Website Demo

http://luqiyang.x10host.com/Company_Website_Demo/

Employee Management System Demo

http://luqiyang.x10host.com/Employee_System/#/

Flower Gallery jQuery Mobile Demo

http://luqiyang.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

Web Developer Intern, San Jose, CA, US

June 2015 – Present

Valiantica Inc.

- Developed the Beshton Software Inc. company website from the ground up with HTML5, CSS3, Bootstrap, and Javascript
- Developed an Employee Management System with HTML5, CSS3, Bootstrap, Javascript, JSON, Node.js, Express.js
- Created appealing visual web interfaces by 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

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

Freescall 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 Freescall single-chip microcomputer
- Designed and optimized photoelectric-based mapping algorithm using C
- Designed and optimized the mechanical structure of the car