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://luqiyan.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