Ruofan Zhang

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SKILLS

Design Methods

Think Aloud
Requirement Analysis
Function Decomposition
Concept Prototyping
Competitive Analytics
Heuristic

Design Tools

Illustrator
InDesign
Photoshop
Dreamweaver
AutoCAD
Solidworks
ANSYS
MAXWELL
HFSS

Programming
C
MATLAB
HTML/CSS
JQuery/JavaScript

EDUCATION

Tsinghua University, China	09/2012 - 01/2015 (anticipated)
Master of Engineering	
Mechanical Design	

Rhode Island School of Design, USA	06/2014 - 08/2014
Summer Studies	
Identity Design & Branding | Web Design	

University of Tokyo, Japan	01/2013 - 03/2013
Visiting Student	
Micro Components & Systems for Nano / Molecular Engineering	

Tsinghua University, China	09/2008 - 07/2012
Bachelor of Engineering	
Measurement, Control Technology and Instruments	

RESEARCH EXPERIENCE

Web Design   07/2014 - 08/2014

Participator | Rhode Island School of Design
• Gained knowledge in prototyping websites and cutting-edge design concepts
• Designed and hand-coded individual static portfolio website

Identity Design & Branding   06/2014- 07/2014

Participator | Rhode Island School of Design
• Designed an identity system for an imaginary yogurt company
• Researched into visual language and created a mood board and color palette
• Adapted identity design to various contexts (logo, stationery set, story board and webpage)
• Created an identity manual

Grad Design Seminar II for IxD   02/2014

Auditor | Carnegie Mellon University
• Discussed the current situation and development of co-design
• Simulated co-design process of a museum app

**Magnetron Sputtering System Modeling ,   08/2013- 12/2014
Simulation and Optimization**

Participator | Tsinghua University
• Modeled of direct current magnetron sputtering system
• Simulated the magnetic field distribution in coil-combination situations
• Optimized the motion law of magnetron

**Multidisciplinary Modeling , Simulation and   03/2013- 12/2014
Optimization of Intergrated Circuit Equipment**

Participator | Tsinghua University
• Developed electromagnetic field simulation package of plasma enhanced chemical deposition (PECVD) based on secondary development of HFSS
• Simulated the electromagnetic distribution of PECVD chamber
• Designed and programmed electromagnetic simulation interface

PAPERS & PATENTS

Dissertation

• A Research of Magnetron Sputtering System Simulation and Magnetron Field Parameter Optimization

Patents

• An Eccentric Rotating Magnetron Sputtering System Method of Quasi Laymen
No.   2013105751318
Date :   11/2013

• A Calculation Method of the Optimal Motion Law of Magnetron in Rotating System
No.   2013101536990
Date :   04/2013

Software Copyright

• Ansoft Encapsulation System
No.   2014SR051361
Date :   04/2014

HONORS & AWARDS

• Third-class Social Work Scholarship
Tsinghua University   2011

• Outstanding Representative of Social Work
Tsinghua University   2011

• Outstanding Member in Students' Union
the Department of Precision Instrument , Tsinghua University
                            2010

INTERESTS

Reading
Sketching
Running
Dramas & Musicals

LANGUAGES

English (fluent)
Chinese (native)
Japanese (basic)

RESEARCH EXPERIENCE (CONTINUED)

Micro Needle Fabrication Using Electrical Discharge Machining   01/2013- 03/2013
Participator | the University of Tokyo
• Analyzed the parametric space of discharge machining
• Processed the ladder-type probe

Rotatable Chair Design   06/2011- 07/2011
Team Leader | Tsinghua University
• Designed the prototype with both 2D sketch and 3D model
• Analyzed the capability and usability of components
• Simulated the assembly process

Shopping Robot Design, Manufacture and Assembly   02/2011- 06/2011
Team Leader | Tsinghua University
• Designed, manufactured and assembled the arm subsystem of the robot
• Integrated the design results of all the team members and finished the final report and project presentation

The Circuit Design of One-Minute-Bounce Counter   07/2010- 08/2010
Member | Tsinghua University
• Designed the modular circuit
• Used capacitance resistance components to set up the circuit and conducted function debugging

Metalworking Practice   08/2009- 09/2009
Member | Tsinghua University
• Learned to operate the machine tools, such as lathes, milling machines, planers, the grinding machines

SOCIAL AND EXTRACURRICULAR ACTIVITIES

Post-disaster Reconstruction in Sichuan Province   04/2011
Campus Media Representative of Tsinghua University
• Spot-visited the 5/12 Wenchuan Earthquake stricken areas and interviewed local government officials and residents
• Improved interpersonal communication skills, coordinative capacity as well as adaptability
• Published reports on China Youth Daily

Future Global Leaders Program   08/2010
Participator | University of California, San Diego
• Discussed with professors and students of UCSD about the current political and economic affairs
• Gained experience in communicating with people of different cultral background

Zijing Newspaper   03/2009-06/2012
Journalist, Layout Designer, Deputy Editor | Tsinghua University
• Learned basic concepts of layout design
• Led the edit of the character page
• Managed the organization, prototype and design of the special edition of centennial celebration of Tsinghua University
• Improved communication skills through interviews