

# 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

<b>Tsinghua University, China</b>	09/2012 - 01/2015 (anticipated)
Master of Engineering Mechanical Design	
<b>Rhode Island School of Design, USA</b>	06/2014 - 08/2014
Summer Studies Identity Design & Branding   Web Design	
<b>University of Tokyo, Japan</b>	01/2013 - 03/2013
Visiting Student Micro Components & Systems for Nano / Molecular Engineering	
<b>Tsinghua University, China</b>	09/2008 - 07/2012
Bachelor of Engineering Measurement Control and Technology	

## RESEARCH EXPERIENCE

<b>Web Design</b>	07/2014 - 08/2014
Participant   Rhode Island School of Design	
• Gained knowledge in prototyping websites and cutting-edge design concepts	
• Designed and hand-coded individual static portfolio website	
<b>Identity Design &amp; Branding</b>	06/2014- 07/2014
Participant   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	
<b>Grad Design Seminar II for IxD</b>	02/2014
Auditor   Carnegie Mellon University	
• Discussed the current situation and development of co-design	
• Simulated co-design process of a museum app	
<b>Magnetron Sputtering System Modeling , Simulation and Optimization</b>	08/2013- 12/2014
Participant   Tsinghua University	
• Modeled of direct current magnetron sputtering system	
• Simulated the magnetic field distribution in coil-combination situations	
• Optimized the motion law of magnetron	
<b>Multidisciplinary Modeling , Simulation and Optimization of Intergrated Circuit Equipment</b>	03/2013- 12/2014
Participant   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
- Enhanced 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 cultural background

### Zijing Newspaper

03/2009-06/2012

Journalist, Layout Designer, Associate 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