

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

## RESEARCH EXPERIENCE

- |                                                                                                                                                                                                                                                                                                                               |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Web Design</b>                                                                                                                                                                                                                                                                                                             | 07/2014 - 08/2014 |
| Participant   Rhode Island School of Design<br>• Gained knowledge in prototyping websites and cutting-edge design concepts<br>• Designed and hand-coded individual static portfolio website                                                                                                                                   |                   |
| <b>Identity Design &amp; Branding</b>                                                                                                                                                                                                                                                                                         | 06/2014- 07/2014  |
| Participant   Rhode Island School of Design<br>• Designed an identity system for an imaginary yogurt company<br>• Researched into visual language and created a mood board and color palette<br>• Adapted identity design to various contexts (logo, stationery set, story board and webpage)<br>• Created an identity manual |                   |
| <b>Grad Design Seminar II for IxD</b>                                                                                                                                                                                                                                                                                         | 02/2014           |
| Auditor   Carnegie Mellon University<br>• Discussed the current situation and development of co-design<br>• Simulated co-design process of a museum app                                                                                                                                                                       |                   |
| <b>Magnetron Sputtering System Modeling , Simulation and Optimization</b>                                                                                                                                                                                                                                                     | 08/2013- 12/2014  |
| Participant   Tsinghua University<br>• Modeled of direct current magnetron sputtering system<br>• Simulated the magnetic field distribution in coil-combination situations<br>• Optimized the motion law of magnetron                                                                                                         |                   |
| <b>Multidisciplinary Modeling , Simulation and Optimization of Intergrated Circuit Equipment</b>                                                                                                                                                                                                                              | 03/2013- 12/2014  |
| Participant   Tsinghua University<br>• Developed electromagnetic field simulation package of plasma enhanced chemical deposition (PECVD) based on secondary development of HFSS<br>• Simulated the electromagnetic distribution of PECVD chamber<br>• 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, 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