

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 and Technology | |

RESEARCH EXPERIENCE

- | | |
|---|-------------------|
| Web Design | 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 | |
| Identity Design & Branding | 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 | |
| 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 , Simulation and Optimization | 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 | |
| Multidisciplinary Modeling , Simulation and Optimization of Intergrated Circuit Equipment | 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
- 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 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