

# Zichen Wang

wzichen@umich.edu | 512-949-1541 | wangzc001.wixsite.com/website  
2200 Fuller Rd., Ann Arbor, Michigan | MI 48105

EDUCATION	<b>University of Michigan</b> <i>M.S. in Design Science</i>	Ann Arbor, MI GPA: 4.0/4.0 2019 - Dec 2020
	<ul style="list-style-type: none"><li>Coursework: Analytical Product Design, +Impact Studio, Cognitive Ergonomics, Design Process Models, Design Thinking, Global Manufacturing, Intellectual Property Law, Branding Strategy, Behavior Research in Marketing</li></ul>	
	<b>University of Michigan-Shanghai Jiao Tong University (UM-SJTU) Joint Institute</b> <i>B.S. in Mechanical Engineering</i>	Shanghai, China 2015 - 2019
	<ul style="list-style-type: none"><li>Academic Excellence Scholarship of SJTU for 2016-2017</li></ul>	
PROJECT & RESEARCH	<b>Romu In-house Composting Bin</b> <i>Team Leader</i>	Ann Arbor, MI Sep - Dec 2019
	<ul style="list-style-type: none"><li>Conceptualized and sketched composting bin for collecting and shredding compostable food scraps to accelerate composting process; Designed app in Figma to provide pick-up service and education on composting for users</li><li>Prototyped and built CAD in Solidworks; Programmed motion sensor in Arduino for automatic lid opening</li><li>Conducted engineering functional/conjoint/marketing/financial analysis, Pro Forma projection, DFEMA analysis, cost analysis with BOM to validate design concepts and make business plan</li></ul>	
	<b>Origami-based Transformable Wheel Robot</b> <i>Team Leader</i>	Shanghai, China May - Dec 2018
	<ul style="list-style-type: none"><li>Designed and prototyped three soft robots with Origami-structured transformable wheels; Developed unique fabrication methods with 3D printing and sewing to simulate Origami-performance</li><li>Designed new Origami pattern to realize multi-modes wheel transformation on special terrain</li><li>Built 3D wheel model in MatLAB for qualitative analysis on transformation mechanism</li><li>Won Silver Award of 2018 Winter Design Expo</li></ul>	
	<b>Beverage Adding robot</b> <i>Designer &amp; Coordinator</i>	Shanghai, China Jun - Aug 2016
	<ul style="list-style-type: none"><li>Designed and built automatic beverage serving robot with app for remote control</li><li>Made GD&amp;T and CAD in Solidworks; Prototyped by 3D printing and laser cutting</li><li>Won Best Innovation Prize of 2016 Summer Design Expo</li></ul>	
	<b>European Union Chamber of Commerce in China (EUCCC)</b> <i>Government Affair Assistant</i>	Shanghai, China 2018 - May 2019
	<ul style="list-style-type: none"><li>Conducted regulatory and marketing research for auto components and satellites industries</li><li>Generated bilingual drafts of EUCCC Auto Components Position Paper 2019 for lobbying with governments; Drafted GNSS.Asia Country Profile 2019 for UN satellites project</li><li>Coordinated and translated management-level meetings between companies and governments in Auto Components, GNSS, CSR, Heating, R&amp;D, Human Resources sections</li></ul>	
	<b>Siemens Ltd., China</b> <i>Procurement Assistant in Power and Gas Division</i>	Shanghai, China 2017-Jun 2018
	<ul style="list-style-type: none"><li>Worked in strategy making and negotiation with vendors for localization projects</li><li>Coordinated between engineering and business teams for project development</li><li>Generated, managed supplier base, and executed purchasing order placement</li></ul>	
	<b>Graduation Season, UM-SJTU Joint Institute</b> <i>Director of Graduation Party</i>	Shanghai, China Jan - Aug 2019
	<ul style="list-style-type: none"><li>Planned and directed 2019 Graduation Party Performance for all graduates and staffs in Joint Institute</li><li>Executed and sent gift to Joint Institute on Graduation Ceremony, representing all 2019 graduates</li></ul>	
LEADERSHIP & TEAMWORK	<b>Entrepreneurship Competition, UM-SJTU Joint Institute</b> <i>Team Leader</i>	Shanghai, China Jan - Apr 2018
	<ul style="list-style-type: none"><li>Entered final competition as one of top ten business plans, with plan of in-house storage management system</li></ul>	
	<b>Student Union, UM-SJTU Joint Institute</b> <i>Vice Director of Entertainment Department</i>	Shanghai, China 2015 - 2017
	<ul style="list-style-type: none"><li>Planned and organized various annual events for 500+ students: Welcome Party, Christmas Ball, etc.</li></ul>	
	<b>SKILLS</b>	<ul style="list-style-type: none"><li><b>Design:</b> UG NX, Solidworks, AutoCAD, GD&amp;T   Figma UX   FMEA, DOE</li><li><b>Manufacturing:</b> 3D Printing, CNC Machining, Turning, Milling, Drilling</li><li><b>Software:</b> Matlab, SPSS   Adobe Pr   Office</li><li><b>Programming Languages:</b> C, C++, Latex, Arduino, Python</li></ul>