

Mingdong Chen

11711903@mail.sustech.edu.cn ♦ +86 17324480712 ♦ <https://chen.ancorasir.com>

EDUCATION

Southern University of Science and Technology (SUSTech) <i>2022 THE World University Ranking: Rank No.9 in China mainland</i> Bachelor of Engineering, Mechanical Engineering GPA: 3.34/4.0; Junior/Senior GPA:3.52/4.0	Shenzhen, Guangdong/China 09.2017 -06.2021
University of British Columbia Summer Program, Biological and Chemical Engineering	Vancouver, British Columbia 07.2018 -08.2018

SKILLS

Designing Software: Fusion 360, SolidWorks, Rhino, KeyShot, Adobe Illustrator, Adobe Photoshop

Manufacturing Software: Mastercam, Edgcam

Programming Software: MATLAB, Arduino IDE, ROS

Languages: English (Fluent), Mandarin (Native Speaker), Cantonese (Conversational)

WORK EXPERIENCE

Shenzhen Ancoraspring Inc. <i>Ancoraspring provides cloud-based collaborative automation industrial design software</i> Product Designer	Shenzhen, Guangdong/China 07.2021 -Present
---	---

- Cooperated with web developers to build an online configurator of industrial furniture and equipment.
- Led the prototype design for an online form system for industrial automation project management.
- Designed a series of industrial furniture and workstations, which have been used in several scenarios.

Nanyang Technological University, School of MAE <i>Research Assistant, Intern</i>	Singapore 07 -08.2019
---	--------------------------

- Conducted a literature review on the development and current situation of the tracked robot.
- Assisted to propose a refinement on the mechanical structure design of the tracked construction robot to satisfy working environments of building construction.

RESEARCH EXPERIENCE

Intelligent Design System of Machine Automation Based on Web 3D Interaction <i>Final Year Project</i>	College of Engineering, SUSTech Fall 2021 -Summer 2022
---	--

- Collaborated with engineers from Ancoraspring Inc. to improve the UX experience of the model design webpage.
- Proposed a concept of parametric design on industrial automation equipment.
- Redesigned the mechanical connection component used for aluminum extrusion to reduce the component number to 30%.

Bionic Design on Amphibian Lobster Robots System <i>Lab Research Project</i>	BionicDL Lab, SUSTech Spring 2019 -Fall 2020
--	--

- Led an undergraduate team project on lobster-inspired soft actuator and finger surface design for grasping.

Robotic Cane as a Soft SuperLimb for Elderly Sit-to-Stand Assistance <i>National Undergraduate Training Project for Innovation and Entrepreneurship</i>	SUSTech -MIT Workshop Fall 2019 -Summer 2020
---	--

- Designed and modified a wearable system containing a pneumatically-driven cane and an inflatable vest.
 - Illustrated most of the conceptual graphs for the published conference paper of this project.
-

LEADERSHIP

Leader of Student Ambassador, School Ambassadors Organization- SUSTech	09.2018 -09.2019
---	------------------

AWARDS

Excellence Award of Graduation Project Thesis	06.2021
First Prize of SUSTech Engineering Innovation Competition	12.2019

Second Prize of SUSTech Robotics Innovation Competition
Excellence Award of First-year Students Scholarship

12.2019
11.2017

PATENT

Mingdong, Chen. 2020. A standing assistance system (CHINESE). CN 111700756A, filed May 28, 2020, and issued September 25, 2020.

PUBLICATION

X. Wu; H. Liu; Z. Liu; **Mingdong Chen**; F. Wan; C. Fu; Harry Asada; Z. Wang; C. Song. "Robotic Cane as a Soft SuperLimb for Elderly Sit-to-Stand Assistance," *2020 3rd IEEE International Conference on Soft Robotics (RoboSoft)*, 2020, pp. 599-606, doi: 10.1109/RoboSoft48309.2020.9116028

HOBBIES

Baseball, Snow Ski, Hiking, Cycling, Cooking.