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Personal Statement

As an Undergraduate student double major in *Integrative System and Design (ISD)* and *Mechanical Engineering (ME)*, I define myself as a combination of a product designer and a mechanical engineer. As a product designer, I am familiar with design thinking and process, problem definition, user experience analysis, and design.... As a mechanical engineer, I am knowledgeable in mechanical design, CAD & CAM software and technics, tooling & manufacture...

ISD enables me to practice in year-long projects, find users' needs, and build a functional product prototype. My experience in several robotics competitions as captain and mechanical engineer let me know more and practice professional mechanical engineering knowledge and equipped me to run a team.

Core Skill

- Engineering CAD (Solidworks, AutoCAD...)
- Mechanical Engineering
- Mechanical Design
- Structural Analysis
- CAM
- Tooling Skill
- Prototype Creation
- Problem Defining
- UX
- Paper Sketching
- Digital Drawing & Sketching
- Design CAD (Rhino, Blender...)
- Adobe Creative Suite & MS application

Education

The Hong Kong University of Science and Technology	Sep 2022 – Present
Master of Philosophy (MPhil) in Individualized Interdisciplinary Program (Construction Robotics)	Hong Kong
The Hong Kong University of Science and Technology	Sep 2018 – Jun 2022
Bachelor of Science Degree in Integrative System and Design, Additional Major in Mechanical Engineering	Hong Kong

Career, Internship & Related Experience Summary

Pacificare Hong Kong Limited as product engineer Jun -Aug 2021

I interned at Pacificare Hong Kong Limited as a product engineer responsible for a new product mechanical design and fast prototype.

InnoX 2021 Winter Camp as camper Jan 2021

I attend InnoX 2021 Winter Camp held by HKCRC as a camper. During the camp, my teammate and I formed an idea related to smart cooking called cooked. Only a visual prototype is built due to the time limit.

DJI RoboMaster Summer Camp as Mechanical Assistant Tutor Aug 2020

I attend to help cultivate future engineers and guide campers through the mechanical design process, evaluate campers' work, provide campers with knowledge and experience.

Under Graduate Research Opportunities (UROP) as Student Jun - Aug 2020

I attended the UROP project supervised by Prof Michael Yu WANG in the summer of 2020. In this project, I try to recreate a gecko adhesive material and try to build a gecko-inspired gripper used in the warehouse.

ISD Year Projects as Product Designer and Mechanical Engineer Sep 2019 – Present

This project-based learning course for our division aims to learn product design skills, design thinking system thinking, and technical knowledge. I have been working on Elderly Robotics, Personal Mobility, Airport Auto Trolley Hauling.

RoboMaster Robotics Competition as Senior Mechanical Engineer & Captain Sep 2018 – Aug 2020

Act as a mechanical engineer in 2019 and captain in 2020. Mainly responsible for robots mechanical design, manufacture, and maintenance as an engineer, project managing, and team promotion as captain. Won Champion & Grand Prize for 2019 International.

Honor, Certification & Language

- Talented Development Scholarship; Shui On Innovation Fund Student Awards
- Certified SOLIDWORKS Professional in Mechanical Design (CSWP); Construction Industry Safety Training Certificate (HK Green Card)
- Language: Mandarin (Native speaker); English (Proficiency)