TIANCHENG "TC" YANG

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Carnegie Mellon University
Tepper School of Business,
College of Engineering,
School of Design
Master of Integrated Innovation of Product and Services
3.9 / 4.0
Dec 2020

Lehigh University
Intercollegiate Program
Bachelor of Science in Integrated Degree of Humanities and Engineering:
Mechanical Engineering & Product Design
3.3 / 4.0
May 2019

SKILLS

Creativity
Adobe Ps, Lr, Pr
Final Cut Pro
Sketch & Figma
3ds Max
HTML & CSS

Efficiency
Microsoft Office

Engineering
C++
Arduino/Particle
Manual Machining
SolidWorks
Fusion 360
Matlab

Languages
Native Chinese
Fluent English
Elementary Japanese

Others
Public Speaking
Film Making
Photography
Adaptability

PROJECTS

"VideoMark": Augment video sharability with connections to social media
Extracurricular project sponsored by Amazon — Oct - Nov 2019
- Conducted primary user research and synthesized insights on on-the-go movie and TV series watching behavior
- Facilitated meetings and product development sessions
- Developed interaction model for sharing video clip with minimum firction
- Nominated in Kellogg Design Challenge

"LaundroPod": Know laundry machine availability at a glance
Integrated product development class project — Oct - Dec 2019
- Identified product opportunity gap by analyzing PESTLE factors and conducting interviews and focus groups
- Synthesize research data to find pain points in shared laundry rooms
- Developed the concept of an ambient connected device to help shared laundry room users know machine availability at home
- Prototyped the solution using SolidWorks and Keyshot

"Best of Time": Connect digital and physical pictorial memories
Individual creative project — July 2018
- Directed survey and user interviews and discovered coherent behavioral pattern of millennial while interacting with memento.
- Innovated a new UI that help users to recall their best moments using Sketch while complying with Apple design guidelines
- Conceptualized an algorithm to auto-select user's favorite photos
- Designed an album stand with SolidWorks and prototyped with 3D printing

Formula SAE: Build a race car and compete with world-class teams
Extracurricular engineering competition — Aug 2017 - May 2019
- Designed the suspension system with SolidWorks and SusProg3D
- Guide the the race team and provided clear instructions that brings new recruits up to speed
- Boosted skidpad and acceleration time by 10% and 20%, respectively
- Improved overall team ranking and engineering design ranking by 30 percentiles each

EMPLOYMENT EXPERIENCE

Intern Engineer & Operation Assistant
NIO Automotive — July 2017
- Repaired prototype vehicles at the suppliers as a team representative
- Collected and analyzed air suspension data for future development
- Took charge of managing Bill of Material for the Chassis Department