My passion for self-driving vehicles propels me to step into the field of deep learning and artificial intelligence. Based on my thirst for knowledge and inquisitive nature, I strive to keep myself abreast of technology trends and take the initiative to obtain hands-on experience related to these techniques, especially regarding computer vision and natural language processing. I am applying to the Master of Engineering program at the University of California, Los Angeles because it provides me with an environment to develop real-world applications and solve social issues with a group of outstanding members.

To pave the way for the future, I actively seize all the opportunities to earn research experience during my undergraduate studies. At National Taiwan University, I designed a disentanglement representation framework for domain generalized face anti-spoofing. The work was awarded first place in the Deep Learning for Computer Vision Final Project and submitted to the Association for the Advancement of Artificial Intelligence for publication after further refinement. Moreover, I have gained industry experience by joining a project sponsored by the Cathay United Bank. Aside from working with the team to develop the Smart Face Recognition Access Control, I also improved the recognition rate from 98% to 100% successfully. To overcome the barriers posed by the COVID-19 pandemic, we also researched Masked Face Recognition and effectively achieved state-of-the-art performance, which research outcome was published by the International Conference on Consumer Electronics. In addition, I actively participated in the research of question answering. My efforts paid off when my team reproduced a state-of-the-art model in the QA dataset. These invaluable research experiences have not only expanded my scope of knowledge but also equipped me with the ability to work independently and collaboratively.

I pay close attention to social issues and strive to stay on top of global development. Hence, I hope to pursue a field that enables me to address the most urgent needs of our society. According to my observation, the "road rage" phenomenon is prevalent in many countries, including Taiwan. Often, drivers refuse to give in to each other and resort to irrational quarrels since they treat each other as objects instead of subjects. I believe that more connections can be established between the drivers and the automobiles to create a friendlier and safer road environment. By integrating the existing self-driving system and AI-backed voice-activated robot technology, I seek to make driving more humanized to alleviate the problem of road rage. During my graduate studies, I look forward to delving into artificial intelligence to gain professional expertise and prepare myself for working in a related industry after graduation, such as Argo AI, Waymo, Tesla, etc. I hope to assume positions in the Research and Development department to develop humanization vehicle systems in the future, which will create a safer and more convenient traffic environment.

UCLA's diversified courses will give me an in-depth understanding of deep learning and artificial intelligence, cultivating my competitive edge when entering the workforce. Attending your program will most certainly be a rewarding experience.