

Dear Sir/Madam,

I am writing this letter to strongly recommend Mr. Chih-ho Hsu for your esteemed Ph.D. program. Chih-ho is an undergraduate member involved in the research project that I collaborated with Prof. Hung-Yu Wei. In the past two years, Chih-ho have demonstrated his ability to work independently with great creativity and enthusiasm. I'm confident that he has both personal and professional maturity to be a valuable member of your department.

In my view, Chih-ho is definitely a clever and hardworking person. When he came to join our project, he was in charge of investigating Network Function Virtualization (NFV) techniques for orchestrating edge computing entities. He always planned his schedule and weekly presented his research progresses to our study group. Meanwhile, he was very passionate to read relevant papers and had raised several insightful questions in our group meeting. I believe both his persistent personality and his enthusiasm for learning will continually make him an active student at graduate school.

Chih-ho owns a strong mathematical background as well as programming skills. He has once collaborated with one of my students on the virtual network embedding problem, which is an extension of our project. Through his rigorous derivation, he helped us design the mathematical model for our problem and provided feasible possible optimization method for it. He then delved into implementing the simulation to verify our proposed algorithm. Though it took a lot of time and effort to modify the simulation code, he was patient to complete the hard work. Thanks to his work that laid the foundation, we have developed much further study.

Chih-ho also displayed outstanding communication ability and great research potential to me. Recently, he have collaborated with my group on the study of space-ground integrated networks. We have discussed several use-cases of satellites and UAVs in the 6G scenarios, and he can always grasp key characteristics of them immediately. Based on his research on task offloading for vehicular networks, he have devised a two-steps algorithm to jointly optimize the UAV deployments and the allocation of spectrum resources. Due to his significant efforts in this work, I'm proud to let him to present our research results at IEEE GLOBECOM, 2020.

Mr. Chih-ho Hsu is undoubtedly the most promising student I have worked with in the last few years. Based on his accomplishments and high passion to research, I'm sure that he can result in significant contributions at your school. I also believe it is very beneficial for your school and himself to continue his academic journey in the graduate program, and thereby I give him my highest recommendation.

Sincerely yours,

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