Personal Statement

I am Yuting Jiang, a senior student from Department of Electrical Engineering and Computer Science, Henry Samueli School of Engineering. I have always been dreaming about creating something interesting and useful and becoming an engineer since I was in high school. I have taken part in many interest groups and projects that include automatic controlling, drones, programming and so on. I joined a drone club when I was a sophomore and participated in many drone related projects, like building our own drones and controllers. When I entered my junior year, I first learned about the theory of automatic controlling, and I was so impressed by the theory behind the 'magic, so I started to apply the theory in every project I participated in that involves controlling. I also participated in a research that involves automatic controlling and took the responsibility of writing the program that controls the whole process.

Although I have experienced some projects like automatic cars, and building a drone, I have never been involved in a project that build an automatic drone. This requires much more precision in controlling and more efforts in testing. I have a very strong desire to combine both of my previous project experiences together and explore deeper into the world of controlling and engineering. I am in a group that have great ideas and initiative. We are working on a system that can actually help others and make a difference. Also, being involved in such a novel project has great positive influence on building my ability of solving problems as an engineer.

The idea of starting this project originates from the project that many major technology company is currently developing – the drone delivery. The project aims to replace traditional parcel delivery methods with drone delivery system to significantly reduce the cost of shipping. However, building a drone delivery system would be hard to fulfill for us in such a short time, so we decided to start from something quite similar but at the meanwhile, quite different. We want to build a system that only needs to handle very few requests at a time, doesn't need to carry heavy things but still can help people a lot, and that came to our Medical Drone Project. The project can help people at their emergencies while consuming little resources. The only device we need is a drone. However, stability is a significant issue for us to consider, instead of building our own cheap drone, we want to purchase one with reliable quality and mature basic flight controls integrate, which is the DJI product we plan to purchase, so that we can focus on our own project.

In the end my group members and I are devoting great efforts on this project and we really need the funding from UROP to make it succeed. Thank you very much for your attention.

Yuting Jiang