

## Personal statement

My name is Weixi Wang, a senior student studying in the EECS department in UCI. I have been dreaming of becoming someone who can design some garget for others to use. Ever since I entered the college, I have chosen many courses related to automatic control theory, electronics, circuit design. All I want is fulfil my dream as a designer as well as an engineer. During my study, I know that I will use what I learned to make my dream come true.

Up till now, what I have learned has had a great impact on what I could do---I can design a complicated system with multi feedback routes as well as a proper gain. I have enough knowledge in designing a multivariant time-variant system, and I believe that could help a lot in design and modify the control of the drone in the project.

The reason why we choose the topic lies in a project Amazon recently released. In the project Amazon's drones help carry parcels to a designated area, cutting down the cost of shipment. We know that we may not be able to create a drone that could carry heavy loads, so we start by making a drone delivery system that can carry light loads while still having some realistic and beneficiary purpose. After discussion, we determined that we should make a drone that can carry medical aids to whoever need it. From an ethical and social level as a whole, we want to help improve the medical related social services of the society.

We are now building the server and UI the system needs, and all we need is a trustworthy and reliable drone—the reason we choose to buy one instead of building one is that we want to make sure we don't cause any safety issues.

In the end me and my group members are devoting great efforts on this project and we really need the funding from UROP to make it succeed.

Weixi Wang