

Student Profile

Yusheng Wang – Mechanical and Aerospace Engineering PhD Program



Your Time at UCI

What made you decide to pursue a graduate degree?

It has always been my dream to get a PhD degree since I was young.

Why did you choose to come to UCI?

My adviser, Prof. Shkel, is a famous expert in the field of Microsystems Technology and I always wanted to study in his group as a PhD student.

If you are conducting research, how would you explain your research and its significance to your grandparent?

My research is mainly focused on navigation application. It includes fabrication of inertial sensors with better performance and smaller sizes, testing and improvement of such sensors, and algorithms to convert sensor readouts into position information during navigation. The significance of this research is to provide a better navigation technique that is independent on surrounding signals, such as GPS, WiFi, and LTE. Environments where such signals are not available include in-door, under water, in a tunnel, etc.

What are your hobbies/passions outside of research?

I love sports, and I play basketball, tennis, and volleyball when I have time. I also love to read Bible to know the word of God.

Reflections

What are you most proud of accomplishing (so far) in your graduate program?

When I was working on a project in the lab, I proposed a new method to improve the performance of the devices that we fabricated. The idea was simple but the implementation of the idea was quite complicated. I did a lot of experiments on the idea and kept failing few a couple of weeks. I was very frustrated and even my advisor didn't think it was going to work. But I just felt that the idea was so simple and delicate and it should succeed. So I just kept trying different methods to improve the experiment setup and finally it worked. I published one conference paper and one journal paper on that topic in the end. The lesson learnt here is that: never give up on a good idea and work hard with faith and motivation.

What advice do you have for a new graduate student in your program?

Work hard, be motivated, and communicate more with advisor and lab-mates.

Career

What do you see yourself doing in five or ten years?

I hope to keep doing research in MEMS field and make a contribution.