

I named myself when I was seven.

I started to look for myself by trying what I want to do after entering Harbin Institute of Technology (HIT). While other students spent plenty of time in fighting for high GPA, I developed android applications, set up an e-commerce company with several friends (invested by the former headmaster), even tried to join the navy. But those things were not suitable for me and I found that what I needed was a more creative career. So I joined the Visual Computing and Machine Intelligence Research Center as a part-time research assistant in my second year of university study.

During the last 2 years of my undergraduate days, I have learned research methodology and techniques in computer graphics such as numerical optimization and 3D modeling. I have taken part in 3 research works: denoising of mesh normal vector, volume rendering as well as developable surface modeling. In the first work, I implemented an optimization approach to smooth the normal vector field of a given model via  $L_0$ -norm minimization. In terms of the work about volume rendering, I was responsible for writing paper and gave an oral presentation on a conference. I took all the work about programming and experimentation in my third research project about developable surface modeling. In addition, I participated in paper-writing and paper-revision according to the comments of reviewers in that work. As a result, I have 3 papers published in major journals and conferences in China as a co-author, which shows that I have got some training in writing academic articles.

In August 2017, I attended the 10th Conference on CSIAM Geometric Design and Computing of China. And I gave 2 presentations on the conference. The most interesting thing was that I fell off the platform carelessly when I was giving the speech about volume rendering, because I was too devoted to what I was talking about. But I did not feel ashamed at that moment and simply jumped back to the platform to go on with my presentation. Moreover, there was no laugh at the audience. After my speech, Prof. Changhe Tu from Shandong University asked me whether I was a young lecturer, because I looked very calm and experienced, which made me look unlike a graduate student. It can be imagined how surprised he was when knowing I was just an undergraduate.

Among the modules I took in HIT, I did particularly well for project-related modules, such as Course Design of Data Structure (94 out of 100, ranked 1st out of 158 students) and Course Design of Software Engineering (97 out of 100, ranked 1st out of 158 students). Moreover, my graduation project was awarded as one of the excellent graduation projects in HIT. This kind of courses allowed me to choose a topic by myself and develop or design a software system through group cooperation. The main reason why I got better performance in those subjects is that they not only test our knowledge studied from textbooks, but also our ideas, communication skills, programming ability as well as problem solving skills, and I am doing better in these aspects. Besides, project-based study makes me get stronger motivation, which is another reason why I like this form of examination instead of a dull test paper.

I have broad interests in fabrication oriented geometric design and optimization, as well as more natural, convenient and intelligent human-computer interaction techniques. If I can be given the opportunity to study with you, I will fight in these areas under your guidance.