

Yuan Liu

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EDUCATION

Wuhan University (WU), Wuhan, China

09/2017-06/2021

- BS in Electronic Information Engineering, Electronic Information School (EIS)
- GPA: 3.58/4.0, GRE 323 (V153+Q170+W3.5), TOEFL: 102 (28+24+25+25)
- Program Language: C++, Python, Java, JavaScript, HTML, VUE
- Software: Visual Studio 2015, IDEA, PyCharm, VS Code
- Systems: Win10, Linux (Ubuntu)
- Academic Honors & Leadership Awards:

| -Extraordinary Student Leader in WU | 04/2020 |
|---|---------|
| -Third Tier Merit Scholarship based on GPA performance among top 30% | 10/2019 |
| -Elite Student of WU based on integrated campus performance among top 30% | 10/2019 |
| -Outstanding Student Leader in Student Council of WU among top 10% | 05/2019 |

RESEARCHES

3D Scene Rendering Based on Photon Mapping

07/2020-09/2020

Accelerated Algorithm Research, Guided by Prof. James O'Brien, University of California, Berkeley

- The project aimed to optimize the previous renderers based on computer graphics and photon mapping and find a rendering algorithm that consumes less time.
- My job was to optimize the data structure and process multithreading and finally, we successfully rendered a complex 3D scene in 2504. 25 seconds .

A Six-Degree-of-Freedom Manipulator Based on Intelligent Recognition and Robot Operating System for People with Disabilities 03/2019-03/2020

Research Member of Robotic Arm Drive, Digital Signal Processing Lab, EIS, WU

- Researched on robot modeling and control based on Robot Operating System.
- Responsible for correcting the possible accuracy problem of eye-in-hand calibration and the problem of inaccurate pose during target recognition, and transplanted all the researched platforms to JETSON TX2.

INTERNSHIP

Huawei Technologies Co., Ltd. Wuhan Research Institute

08/2020-01/2021

Software Web Iterative Development Intern, General Development Dep., Wuhan

- Modified the front-end layout architecture of software Web according to customer's needs and improved 10% of the customer satisfaction.
- Optimized the back-end algorithm, reduced redundant request packets, and shortened the web page response time from the original 4s to around 1s.

IMPORTANT COURSE PROJECT

Sky Replacement in Image Based on Neural Network

04/2020-06/2020

Image quality optimization

- Studied the optimization of smooth filtering of image edges and image color style conversion.
- Optimized the algorithm efficiency and successfully increased the picture switching speed from about 7 seconds/frame to 0.65 seconds/frame and the course project won the second place among 11 participating groups.

LEADERSHIP & VOLUNTARY INVOLVEMENTS

The 9th & 10th Youth Leader Communication Summit between Mainland and Hong Kong & Macau

04/2019&2018

- Invited a total of 90 youth representatives from about 30 universities across the country to Wuhan University to participate in the 7-day summit discussions as the Summit President.
- Responsible for the whole event planning, personnel arrangement, material coordination and guest reception, and managed overall plans and made major decisions.

President of Youth League of the EIS, WU

09/2018-01/2019

Organized routine activities to enrich our campus life like festival carnivals for celebrating traditional festivals or special days like international labors' day etc.

Voluntary Teacher, "Sunny Home Tutor One-on-One Project"

12/2017

- Tutored the primary school students in the "Sunny Home" Child Center in the Ziyang Street, Wuchang District, Wuhan City, and melt in them to play games etc.