MEI Jidong

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EDUCATION BACKGROUND

Sep. 2019-Jun. 2023 Beihang University **Beijing, China**

Bachelor of Engineering

- Major: Mechanical Engineering
- Average Score: 83.83/100
- Class Ranking: 5/21
- Courses include:
  Calculation Method in Engineering and Artificial, The Advanced Computer Programming, Theoretical Mechanics A, **OpenGL 3D Graphics Programming**, **CUDA Programming and its Application**, Fundamental of Electro-mechanical Control Engineering, **Scientific Writing & Report**, Design and Practice of Mechatronic System, Fundamental of Robot Techniques, GAMES-103 Introduction to physics-based computer animation, GAMES-105 Fundamentals of computer character animation, etc.

ACQUIRED SKILLS

Languages: English (Proficient), TOEFL 99 (L 26, R 30, W 22, S 21), CET-6 558
Japanese (Proficient), N1 Certificate (116)

Professional Certificates: AutoCAD Mechanical Design certificate, Solidworks

ACADEMIC ACTIVITIES

Jan. 2023-Jan. 2024 GAMES-105 Fundamentals of computer character animation Homework

- Completed all the homework of GAMES-105 and implemented some relatively new methods like PFNN in the homework;
- Developed a new parameterizing method to blend two animations in a smoother way.

Dec. 2022-Jun. 2023 Graduation Project
Topic: Optimization of CBCT Reconstruction Algorithm and its GPU Acceleration

- Accelerated FDK reconstruction algorithm on GPU with CUDA by at least 200 times;
- Write graduation thesis and passed the oral thesis defense.

Jun. 2022-Nov. 2023 College student Innovation and Entrepreneurship Competition ***Team Leader***
Topic: Mars geographic virtual simulation software based on Unreal Engine

- Mainly responsible for implementing a neural network based on generative adversarial network (GAN) according to a paper;
- Collected and processed the newest Mars DEM data and expanded an existing dataset containing 35000 pairs of DEM images and remote sensing images to nearly 50000 pairs;
- Improved the network structure with WGAN to enhance the convergence and performance of this model, and trained the modified network on the forementioned dataset;
- Bound the bones and designed animation for a Mars Rover in UE5 and imported the generated DEM image to form the terrain model and make a demo.

Oct. 2021-Oct. 2022 Robotic Team in Beihang University ***Member in Algorithm Grou*****p**

- In ABU Robocon 2021 Jimo, I was mainly responsible for using liDAR to calibrate the center of two barrels attached to the same rotating rod with a modified Hough transform algorithm;
- In China University Robot Competition Robocon 2022, I was in charge of determining the orientation and attitude of a cylinder with a given radius in real time using a depth camera.

HONORS AND AWARDS

The First Prize in China University Robot Competition Robocon 2022
The Mabuchi Motor Co., Ltd. Special Award in ABU Robocon 2021 Jimo