YIHENG CHEN

+86 18092280687 | chenyiheng@mail.ustc.edu.cn

University of Science and Technology of China. Hefei, China

Education

University of Science and Technology of China (USTC)   *09/2018 – 06/2022*

Bachelor of Engineering, Department of Automation

- Elite Program for Artificial Intelligence (17% acceptance rate)
- Major: Artificial Intelligence & Automation
- GPA: 3.50 / 4.3   (13/ 83)
- Core Courses: Computer Programming (93/100)   Stochastic Processes (98/100)   Critical Thinking (A+)

  Linear Algebra (86/100)   Pattern Recognition (88/100)   Data Structure and Algorithm (85/100)

Research Experiences

National Undergraduate Training Program for Innovation and Entrepreneurship   *09/2020 – present*

Advisor: Prof. Xingfu Wang

Research on Advanced Network of Vehicles Tracking and Obstacle Avoidance Method

- Constructing socket communication system between vehicles on the Raspberry Pi platform
- Improving and applying avoidance algorithms of autonomous driving (like Bézier curves) on the raspberry vehicles
- Designing algorithms in local networks for one vehicle helping another without sensors to track and evade obstacles

Stereo Matching of 2D Pictures in Computer Vision   *10/2020 -12/ 2020*

Advisor: Prof. Zhiwei Xiong

- Used OpenCV library for binocular stereo matching of images, including stereo correction, parallax map, depth map, and finally got depth estimation

Principal Component Analysis (PCA) and Face Recognition Projects   *09/2020 -12/ 2020*

Advisor: Prof. Zhigang Zheng

- Learnt feature extraction methods like PCA, HOG and SIFT
- Improved and applied EigenFace algorithm for face image processing and recognition
- Learned the method of data dimensionality reduction to extract effective information and avoid dimension disaster

Academic Research on Neuromorphic Engineering   *03/2020 -08/ 2020*

National Engineering Laboratory for Brain-inspired Intelligence

Advisor: Prof. Feng Zhao

- Read related papers in the field of neuromorphic engineering, learned about a hardware method: using integrated circuits to build artificial neural network to simulate the brain

Honor & Awards

- National Encouragement Scholarship (5% of 300 students)   *2020*
- National Mathematics Competition, the third prize   *2020*
- Scholarship for Outstanding Students (Bronze Award, top 30%)   *2019*
- Interviewing famous schoolfellows, outstanding volunteer   *2019*
- Table tennis competition of the department, second place   *2018*

Skills

Programming Skills: Python, MATLAB, C.

Software: Raspbian, Multisim, Wireshark, Pycharm