Hanzhang Liu

Undergraduate, Communication Engineering, UESTC

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EDUCATION

University of Electronic Science and Technology of China (UESTC), Chengdu, China
B.E., Communication Engineering (Yingcai Honors College)   *Sep. 17 - Jun. 21 (Expected)*
GPA: 3.98/4.0
Selected Courses: Linear Algebra (96), Mathematical Analysis II (94), Physics II (92), Signals and Systems (96), Digital Design and MCU System (89), Digital Signal Processing (93)

AWARDS

University Scholarship 2018-2019, UESTC
University Scholarship 2017-2018, UESTC

COURSE PROJECTS

Object Detection
Supervisor : Prof. Yuming Jia   *Dec.2019 - Mar. 2020*

- Learned object detection algorithms and implemented YOLOv3 on COCO dataset.

Dual-frequency Ultrasound Gesture Recognition System
Supervisor : Prof. Chang Wu   *Dec. 2019*

Course : Digital Signal Processing
- Designed a real-time audio processing system that extracted feature sequences from ultrasound.
- Classified gestures based on kNN.
- Demonstrated the system on a laptop with a sokoban demo.

Microprocessor Design
Supervisor : Prof. Jianhao Hu   *May 2019 - Jul. 2019*

Course : Digital Design and MCU System
- Developed a 4-issue, 6-stage pipelined microprocessor that performed sorting and matrix multiplication algorithm on Xilinx A7.
- Designed a vectorized sorting algorithm that is suitable for superscalar microarchitecture.
- Created a compact instruction set.
- Designed the datapath and control unit and coped with hazards.

COMPUTER SKILLS

Languages: C, C++, Python, MATLAB, Verilog, Assembly (MIPS)
Tools and Frameworks: PyTorch, Git